

Package ‘ggblanket’

October 29, 2026

Title Publication-Quality 'ggplot2' Visualisation

Version 30.0.0

Description Wrapper 'ggplot2' functions for publication-quality visualisation.
Aligned with 'ggplot2' and 'tidyverse'. Covers much of what 'ggplot2' does.

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

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

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viridis

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gg_area*Area ggplot*

Description

An area ggplot with [geom_area\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_area(  
  data,  
  ...,  
  geom = "area",  
  stat = "align",  
  position = ggplot2::position_stack(),  
  before = NULL,  
  with = NULL,  
  polygon = TRUE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,
```

```
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",  
x_sec_axis = ggplot2::waiver(),  
x_transform = NULL,  
y_type = NULL,  
y_subtype = NULL,  
y_breaks = NULL,  
y_drop = TRUE,  
y_expand = NULL,  
y_guide = ggplot2::waiver(),  
y_labels = NULL,  
y_limits = NULL,  
y_minor_breaks = ggplot2::waiver(),  
y_name = ggplot2::waiver(),  
y_oob = scales::oob_censor,  
y_palette = seq_len,  
y_position = "left",  
y_sec_axis = ggplot2::waiver(),  
y_transform = NULL,  
fill_type = NULL,  
fill_subtype = NULL,  
fill_breaks = ggplot2::waiver(),  
fill_drop = TRUE,  
fill_guide = NULL,  
fill_labels = NULL,  
fill_limits = NULL,  
fill_name = ggplot2::waiver(),  
fill_oob = scales::oob_censor,  
fill_rescaler = scales::rescale,  
fill_palette = NULL,  
fill_transform = NULL,  
colour_type = NULL,  
colour_subtype = NULL,  
colour_breaks = NULL,
```

```
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
```

```

linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (ggplot2::position_identity()).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .

x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .

x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.

fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to scales::oob_censor .
fill_rescaler	Rescaler for the fill scale. Defaults to scales::rescale .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from fill_type if NULL.
colour_subtype	Scale subtype for colour. Inherits from fill_subtype if NULL.
colour_breaks	Breaks for the colour scale. Inherits from fill_breaks if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from fill_drop if NULL.
colour_guide	Guide for the colour scale. Inherits from fill_guide if NULL.
colour_labels	Labels for the colour scale. Inherits from fill_labels if NULL.
colour_limits	Limits for the colour scale. Inherits from fill_limits if NULL.
colour_name	Name/title for the colour scale. Inherits from fill_name if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from fill_oob if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from fill_rescaler if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.

size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.

shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::economics |>
  gg_area(
    x = date,
    y = unemploy,
  )

ggplot2::economics_long |>
  gg_area(
    x = date,
    y = value01,
    fill = variable,
  )

ggplot2::economics_long |>
  gg_area(
    x = date,
    y = value01,
    facet = variable,
  )
```

gg_bar

Bar ggplot

Description

A bar ggplot with [geom_bar\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_bar(
  data,
  ...,
  geom = "bar",
  stat = "count",
  position = ggplot2::position_stack(),
  before = NULL,
  with = NULL,
  polygon = TRUE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  xintercept = NULL,
  y = NULL,
```

```
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
yintercept = NULL,  
z = NULL,  
fill = NULL,  
colour = NULL,  
alpha = NULL,  
shape = NULL,  
linetype = NULL,  
linewidth = NULL,  
size = NULL,  
stroke = NULL,  
label = NULL,  
weight = NULL,  
group = NULL,  
width = NULL,  
height = NULL,  
slope = NULL,  
intercept = NULL,  
sample = NULL,  
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",  
x_sec_axis = ggplot2::waiver(),  
x_transform = NULL,  
y_type = NULL,  
y_subtype = NULL,  
y_breaks = NULL,  
y_drop = TRUE,  
y_expand = NULL,  
y_guide = ggplot2::waiver(),  
y_labels = NULL,  
y_limits = NULL,  
y_minor_breaks = ggplot2::waiver(),
```

```
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
```

```
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
```

```

    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
<code>colour</code>	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
<code>alpha</code>	Variable mapped to alpha, or a set value.
<code>shape</code>	Variable mapped to shape, or a set value.
<code>linetype</code>	Variable mapped to linetype, or a set value.
<code>linewidth</code>	Variable mapped to linewidth, or a set value.
<code>size</code>	Variable mapped to size, or a set value.

stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .

y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
colour_guide	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
colour_labels	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
colour_limits	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
colour_name	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.

colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.

linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to ggplot2::facet_wrap() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_rows	Row variables for ggplot2::facet_grid() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_cols	Column variables for ggplot2::facet_grid() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for ggplot2::facet_wrap() .
facet_nrow	Number of rows for ggplot2::facet_wrap() .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".

facet_space Whether facet space is fixed or free. Defaults to "fixed".
 coord_xlim, coord_ylim Zoom limits within the coordinate system.
 coord_clip Whether drawing is clipped to the panel. Either "on" (default) or "off".
 coord_reverse Which axes to reverse. One of "none" (default), "x", "y", or "xy".
 coord_ratio Aspect ratio expressed as y / x, for `ggplot2::coord_cartesian()`.
 title Plot title passed to `ggplot2::labs()`.
 subtitle Plot subtitle passed to `ggplot2::labs()`.
 caption Plot caption passed to `ggplot2::labs()`.
 ggplot A base ggplot object to use. Defaults to NULL, which uses `\(x) ggplot2::ggplot(x)`.

Value

A ggplot object.

Examples

```

ggplot2::diamonds |>
  gg_bar(
    x = color,
  )

ggplot2::diamonds |>
  gg_bar(
    x = color,
    fill = cut,
    position = ggplot2::position_dodge(),
  )

ggplot2::diamonds |>
  dplyr::filter(cut %in% c("Premium", "Ideal")) |>
  gg_bar(
    x = color,
    facet = cut,
  )

```

gg_bin2d

Bin2d ggplot

Description

A bin2d ggplot with `geom_bin2d()` defaults for the geom, stat and position.

Note `gg_bin2d` defaults to `colour = NA`.

Usage

```
gg_bin2d(  
  data,  
  ...,  
  geom = "bin2d",  
  stat = "bin2d",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = FALSE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = ggplot2::after_stat(.data$count),  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,  
  angle = NULL,  
  radius = NULL,  
  mapping = ggplot2::aes(),  
  x_type = NULL,  
  x_subtype = NULL,  
  x_breaks = NULL,  
  x_drop = TRUE,  
  x_expand = NULL,  
  x_guide = ggplot2::waiver(),
```

```
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
```

```
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
```



```

    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.

ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .

<code>x_limits</code>	Limits for the x scale. Accepts a vector or a function.
<code>x_minor_breaks</code>	Minor breaks for the x scale.
<code>x_name</code>	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_oob</code>	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
<code>x_palette</code>	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
<code>x_position</code>	Position of the x axis. Either "bottom" (default) or "top".
<code>x_sec_axis</code>	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
<code>x_transform</code>	Transform for the x scale. Auto-detected from subtype if NULL.
<code>y_type</code>	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>y_subtype</code>	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
<code>y_breaks</code>	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>y_drop</code>	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
<code>y_expand</code>	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>y_guide</code>	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .

<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.

size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.

shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::diamonds |>
  gg_bin2d(
    x = carat,
    y = price,
  )

ggplot2::diamonds |>
  gg_bin2d(
    x = carat,
    y = price,
    facet = cut,
  )
```

gg_blanketAny ggplot

Description

A blank ggplot with [geom_blank\(\)](#) defaults for the geom, stat and position.

Note this is an all-purpose custom wrapper intended for use with any geom.

Defaults for fill, colour, linewidth, palettes etc. come from the theme, e.g. via [ggplot2::set_theme\(\)](#).

Use [set_refine\(\)](#), [set_colour_blend\(\)](#) and [set_fill_blend\(\)](#) to set the remaining ggblanket-specific global options.

Usage

```
gg_blanket(  
  data,  
  ...,  
  geom = "blank",  
  stat = "identity",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = NULL,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,
```

```
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
```



```
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
```

```

linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (ggplot2::position_identity()).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.

<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
<code>colour</code>	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
<code>alpha</code>	Variable mapped to alpha, or a set value.
<code>shape</code>	Variable mapped to shape, or a set value.
<code>linetype</code>	Variable mapped to linetype, or a set value.
<code>linewidth</code>	Variable mapped to linewidth, or a set value.
<code>size</code>	Variable mapped to size, or a set value.
<code>stroke</code>	Variable mapped to stroke, or a set value.
<code>label</code>	Variable mapped to label, or a set value.
<code>weight</code>	Variable mapped to weight, or a set value.
<code>group</code>	Variable mapped to group, or a set value.
<code>width</code>	Variable mapped to width, or a set value.
<code>height</code>	Variable mapped to height, or a set value.
<code>slope</code>	Variable mapped to slope, or a set value.
<code>intercept</code>	Variable mapped to intercept, or a set value.
<code>sample</code>	Variable mapped to sample, or a set value.
<code>angle</code>	Variable mapped to angle, or a set value.
<code>radius</code>	Variable mapped to radius, or a set value.
<code>mapping</code>	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.

x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.

fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to scales::oob_censor .
fill_rescaler	Rescaler for the fill scale. Defaults to scales::rescale .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from fill_type if NULL.
colour_subtype	Scale subtype for colour. Inherits from fill_subtype if NULL.
colour_breaks	Breaks for the colour scale. Inherits from fill_breaks if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from fill_drop if NULL.
colour_guide	Guide for the colour scale. Inherits from fill_guide if NULL.
colour_labels	Labels for the colour scale. Inherits from fill_labels if NULL.
colour_limits	Limits for the colour scale. Inherits from fill_limits if NULL.
colour_name	Name/title for the colour scale. Inherits from fill_name if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from fill_oob if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from fill_rescaler if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.

<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.
<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.
<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.
<code>linetype_breaks</code>	Breaks for the linetype scale.
<code>linetype_drop</code>	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
<code>linetype_guide</code>	Guide for the linetype scale. Defaults to NULL.
<code>linetype_labels</code>	Labels for the linetype scale.
<code>linetype_limits</code>	Limits for the linetype scale.

linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
gg_blanket(  
  data = mtcars,  
  geom = "point",  
  x = wt,  
  y = mpg,  
  fill = hp,  
)  
  
gg_blanket(  
  data = mtcars,  
  geom = "point",  
  x = wt,  
  y = mpg,  
  fill = factor(cyl),  
  facet = cyl,  
)
```

gg_boxplot

Boxplot ggplot

Description

A boxplot ggplot with [geom_boxplot\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_boxplot(  
  data,  
  ...,  
  geom = "boxplot",  
  stat = "boxplot",  
  position = ggplot2::position_dodge2(preserve = "single"),  
  before = NULL,  
  with = NULL,  
  polygon = TRUE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,
```



```
z = NULL,
fill = NULL,
colour = NULL,
alpha = NULL,
shape = NULL,
linetype = NULL,
linewidth = NULL,
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
```

```
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
```

```
    linewidth_type = NULL,
    linewidth_subtype = NULL,
    linewidth_breaks = ggplot2::waiver(),
    linewidth_drop = TRUE,
    linewidth_guide = NULL,
    linewidth_labels = NULL,
    linewidth_limits = NULL,
    linewidth_name = ggplot2::waiver(),
    linewidth_oob = scales::oob_censor,
    linewidth_palette = NULL,
    linewidth_transform = NULL,
    linetype_type = NULL,
    linetype_breaks = ggplot2::waiver(),
    linetype_drop = TRUE,
    linetype_guide = NULL,
    linetype_labels = NULL,
    linetype_limits = NULL,
    linetype_name = ggplot2::waiver(),
    linetype_palette = NULL,
    shape_type = NULL,
    shape_breaks = ggplot2::waiver(),
    shape_drop = TRUE,
    shape_guide = NULL,
    shape_labels = NULL,
    shape_limits = NULL,
    shape_name = ggplot2::waiver(),
    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )
```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
<code>colour</code>	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
<code>alpha</code>	Variable mapped to alpha, or a set value.
<code>shape</code>	Variable mapped to shape, or a set value.
<code>linetype</code>	Variable mapped to linetype, or a set value.
<code>linewidth</code>	Variable mapped to linewidth, or a set value.
<code>size</code>	Variable mapped to size, or a set value.
<code>stroke</code>	Variable mapped to stroke, or a set value.
<code>label</code>	Variable mapped to label, or a set value.
<code>weight</code>	Variable mapped to weight, or a set value.
<code>group</code>	Variable mapped to group, or a set value.

width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .

<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.

alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .

<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.
<code>linetype_breaks</code>	Breaks for the linetype scale.
<code>linetype_drop</code>	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
<code>linetype_guide</code>	Guide for the linetype scale. Defaults to NULL.
<code>linetype_labels</code>	Labels for the linetype scale.
<code>linetype_limits</code>	Limits for the linetype scale.
<code>linetype_name</code>	Name/title for the linetype scale.
<code>linetype_palette</code>	Palette for the linetype scale.
<code>shape_type</code>	Scale type for shape. Only "discrete" is supported.
<code>shape_breaks</code>	Breaks for the shape scale.
<code>shape_drop</code>	Whether to drop unused levels for the shape scale. Defaults to TRUE.
<code>shape_guide</code>	Guide for the shape scale. Defaults to NULL.
<code>shape_labels</code>	Labels for the shape scale.
<code>shape_limits</code>	Limits for the shape scale.
<code>shape_name</code>	Name/title for the shape scale.
<code>shape_palette</code>	Palette for the shape scale.
<code>facet</code>	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_rows</code>	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_cols</code>	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_axes</code>	Which axes to draw on facet panels. Defaults to "margins".
<code>facet_axis_labels</code>	Which axis labels to draw on facet panels. Defaults to "all".
<code>facet_drop</code>	Whether to drop unused factor levels in facets. Defaults to TRUE.
<code>facet_labeller</code>	Labeller for facet strip labels. Defaults to "label_value".
<code>facet_ncol</code>	Number of columns for <code>ggplot2::facet_wrap()</code> .
<code>facet_nrow</code>	Number of rows for <code>ggplot2::facet_wrap()</code> .
<code>facet_scales</code>	Whether facet scales are fixed or free. Defaults to "fixed".
<code>facet_space</code>	Whether facet space is fixed or free. Defaults to "fixed".
<code>coord_xlim, coord_ylim</code>	Zoom limits within the coordinate system.

<code>coord_clip</code>	Whether drawing is clipped to the panel. Either "on" (default) or "off".
<code>coord_reverse</code>	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
<code>coord_ratio</code>	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
<code>title</code>	Plot title passed to <code>ggplot2::labs()</code> .
<code>subtitle</code>	Plot subtitle passed to <code>ggplot2::labs()</code> .
<code>caption</code>	Plot caption passed to <code>ggplot2::labs()</code> .
<code>ggplot</code>	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::diamonds |>
  gg_boxplot(
    x = color,
    y = carat,
    y_limits = c(0, NA),
  )

ggplot2::diamonds |>
  gg_boxplot(
    x = color,
    y = carat,
    fill = cut,
    y_limits = c(0, NA),
  )

ggplot2::diamonds |>
  dplyr::filter(cut %in% c("Premium", "Ideal")) |>
  gg_boxplot(
    x = color,
    y = carat,
    facet = ggplot2::vars(cut),
    y_limits = c(0, NA),
  )
```

gg_col

Col ggplot

Description

A col ggplot with `geom_col()` defaults for the geom, stat and position.

Usage

```
gg_col(  
  data,  
  ...,  
  geom = "col",  
  stat = "identity",  
  position = ggplot2::position_stack(),  
  before = NULL,  
  with = NULL,  
  polygon = TRUE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,  
  angle = NULL,  
  radius = NULL,  
  mapping = ggplot2::aes(),  
  x_type = NULL,  
  x_subtype = NULL,  
  x_breaks = NULL,  
  x_drop = TRUE,  
  x_expand = NULL,  
  x_guide = ggplot2::waiver(),
```

```
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
```

```
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
```

```

    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A <code>ggplot2</code> layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.

ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .

x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .

fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from fill_type if NULL.
colour_subtype	Scale subtype for colour. Inherits from fill_subtype if NULL.
colour_breaks	Breaks for the colour scale. Inherits from fill_breaks if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from fill_drop if NULL.
colour_guide	Guide for the colour scale. Inherits from fill_guide if NULL.
colour_labels	Labels for the colour scale. Inherits from fill_labels if NULL.
colour_limits	Limits for the colour scale. Inherits from fill_limits if NULL.
colour_name	Name/title for the colour scale. Inherits from fill_name if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from fill_oob if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from fill_rescaler if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.

size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.

shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::diamonds |>
  dplyr::count(color) |>
  gg_col(
    x = color,
    y = n,
  )

ggplot2::diamonds |>
  dplyr::count(color, cut) |>
  gg_col(
    x = color,
    y = n,
```

```

    fill = cut,
    position = ggplot2::position_dodge(),
  )

ggplot2::diamonds |>
  dplyr::filter(cut %in% c("Premium", "Ideal")) |>
  dplyr::count(color, cut) |>
  gg_col(
    x = color,
    y = n,
    facet = cut,
  )

```

gg_contour

*Contour ggplot***Description**

A contour ggplot with [geom_contour\(\)](#) defaults for the geom, stat and position.

Usage

```

gg_contour(
  data,
  ...,
  geom = "contour",
  stat = "contour",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = FALSE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  xintercept = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  yintercept = NULL,
  z = NULL,
  fill = NULL,
  colour = NULL,
  alpha = NULL,

```

```
shape = NULL,
linetype = NULL,
linewidth = NULL,
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
```

```
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
```

```

linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

data A data frame.

...	Arguments passed to the geom layer, including geom params.
geom	A geom as a string ("point"). Note relevant geom library must be loaded.
stat	A stat as a string ("identity"). Note relevant stat library must be loaded.
position	A position as a function (ggplot2::position_identity()).
before	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
with	A function to apply to the geom layer.
polygon	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
theme	A complete theme object. Defaults to the global theme set with ggplot2::set_theme() .
refine	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with set_refine() .
x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.

slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.

y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
colour_guide	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
colour_labels	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
colour_limits	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
colour_name	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.

<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.
<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.
<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.

linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::faithfuld |>
  gg_contour(
    x = waiting,
    y = eruptions,
    z = density,
  )
```

gg_contour_filled	<i>Contour filled ggplot</i>
-------------------	------------------------------

Description

A contour filled ggplot with [geom_contour_filled\(\)](#) defaults for the geom, stat and position.

Note gg_contour_filled defaults to colour = NA.

Usage

```
gg_contour_filled(
  data,
  ...,
  geom = "contour_filled",
  stat = "contour_filled",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = FALSE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  xintercept = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  yintercept = NULL,
  z = NULL,
  fill = ggplot2::after_stat(.data$level),
  colour = NULL,
```

```
alpha = NULL,
shape = NULL,
linetype = NULL,
linewidth = NULL,
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
```

```
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
```

```

    linewidth_drop = TRUE,
    linewidth_guide = NULL,
    linewidth_labels = NULL,
    linewidth_limits = NULL,
    linewidth_name = ggplot2::waiver(),
    linewidth_oob = scales::oob_censor,
    linewidth_palette = NULL,
    linewidth_transform = NULL,
    linetype_type = NULL,
    linetype_breaks = ggplot2::waiver(),
    linetype_drop = TRUE,
    linetype_guide = NULL,
    linetype_labels = NULL,
    linetype_limits = NULL,
    linetype_name = ggplot2::waiver(),
    linetype_palette = NULL,
    shape_type = NULL,
    shape_breaks = ggplot2::waiver(),
    shape_drop = TRUE,
    shape_guide = NULL,
    shape_labels = NULL,
    shape_limits = NULL,
    shape_name = ggplot2::waiver(),
    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

`data` A data frame.

...	Arguments passed to the geom layer, including geom params.
geom	A geom as a string ("point"). Note relevant geom library must be loaded.
stat	A stat as a string ("identity"). Note relevant stat library must be loaded.
position	A position as a function (<code>ggplot2::position_identity()</code>).
before	A <code>ggplot2</code> layer to add before the geom layer. Unaffected by polygon transformations.
with	A function to apply to the geom layer.
polygon	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
theme	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
refine	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.

slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.

y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
colour_guide	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
colour_labels	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
colour_limits	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
colour_name	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.

alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.

linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::faithfuld |>
  gg_contour_filled(
    x = waiting,
    y = eruptions,
    z = density,
    fill_palette = scales::pal_viridis(option = "turbo"),
  )
```

gg_crossbar

Crossbar ggplot

Description

A crossbar ggplot with [geom_crossbar\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_crossbar(
  data,
  ...,
  geom = "crossbar",
  stat = "identity",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = TRUE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  xintercept = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  yintercept = NULL,
  z = NULL,
  fill = NULL,
  colour = NULL,
```

```
alpha = NULL,  
shape = NULL,  
linetype = NULL,  
linewidth = NULL,  
size = NULL,  
stroke = NULL,  
label = NULL,  
weight = NULL,  
group = NULL,  
width = NULL,  
height = NULL,  
slope = NULL,  
intercept = NULL,  
sample = NULL,  
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",  
x_sec_axis = ggplot2::waiver(),  
x_transform = NULL,  
y_type = NULL,  
y_subtype = NULL,  
y_breaks = NULL,  
y_drop = TRUE,  
y_expand = NULL,  
y_guide = ggplot2::waiver(),  
y_labels = NULL,  
y_limits = NULL,  
y_minor_breaks = ggplot2::waiver(),  
y_name = ggplot2::waiver(),  
y_oob = scales::oob_censor,  
y_palette = seq_len,  
y_position = "left",  
y_sec_axis = ggplot2::waiver(),  
y_transform = NULL,  
fill_type = NULL,
```

```
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
```

```

linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

`data` A data frame.

...	Arguments passed to the geom layer, including geom params.
geom	A geom as a string ("point"). Note relevant geom library must be loaded.
stat	A stat as a string ("identity"). Note relevant stat library must be loaded.
position	A position as a function (ggplot2::position_identity()).
before	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
with	A function to apply to the geom layer.
polygon	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
theme	A complete theme object. Defaults to the global theme set with ggplot2::set_theme() .
refine	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with set_refine() .
x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.

slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.

y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
colour_guide	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
colour_labels	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
colour_limits	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
colour_name	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.

<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.
<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.
<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.

linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
iris |>
  dplyr::group_by(Species) |>
  dplyr::summarise(
    mean = mean(Sepal.Length),
    lower = mean(Sepal.Length) - sd(Sepal.Length),
    upper = mean(Sepal.Length) + sd(Sepal.Length),
  ) |>
  gg_crossbar(
    x = Species,
    y = mean,
    ymin = lower,
    ymax = upper,
  )

ggplot2::mpg |>
  dplyr::group_by(class, drv) |>
  dplyr::summarise(
    mean_hwy = mean(hwy),
    lower = mean_hwy - sd(hwy),
    upper = mean_hwy + sd(hwy),
  ) |>
  gg_crossbar(
    x = class,
    y = mean_hwy,
    ymin = lower,
    ymax = upper,
    fill = drv,
    position = ggplot2::position_dodge2(preserve = "single"),
  )

ggplot2::mpg |>
  dplyr::group_by(class, drv) |>
  dplyr::summarise(
    mean_hwy = mean(hwy),
    lower = mean_hwy - sd(hwy),
    upper = mean_hwy + sd(hwy),
  ) |>
  gg_crossbar(
    x = drv,
    y = mean_hwy,
    ymin = lower,
    ymax = upper,
    facet = class,
  )
```

gg_density*Density ggplot*

Description

A density ggplot with [geom_density\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_density(  
  data,  
  ...,  
  geom = "density",  
  stat = "density",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = TRUE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,
```

```
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
```



```
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
```

```

linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (ggplot2::position_identity()).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .

x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .

<code>x_drop</code>	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
<code>x_expand</code>	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>x_guide</code>	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_labels</code>	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>x_limits</code>	Limits for the x scale. Accepts a vector or a function.
<code>x_minor_breaks</code>	Minor breaks for the x scale.
<code>x_name</code>	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_oob</code>	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
<code>x_palette</code>	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
<code>x_position</code>	Position of the x axis. Either "bottom" (default) or "top".
<code>x_sec_axis</code>	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
<code>x_transform</code>	Transform for the x scale. Auto-detected from subtype if NULL.
<code>y_type</code>	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>y_subtype</code>	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
<code>y_breaks</code>	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>y_drop</code>	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
<code>y_expand</code>	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>y_guide</code>	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.

fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to scales::oob_censor .
fill_rescaler	Rescaler for the fill scale. Defaults to scales::rescale .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from fill_type if NULL.
colour_subtype	Scale subtype for colour. Inherits from fill_subtype if NULL.
colour_breaks	Breaks for the colour scale. Inherits from fill_breaks if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from fill_drop if NULL.
colour_guide	Guide for the colour scale. Inherits from fill_guide if NULL.
colour_labels	Labels for the colour scale. Inherits from fill_labels if NULL.
colour_limits	Limits for the colour scale. Inherits from fill_limits if NULL.
colour_name	Name/title for the colour scale. Inherits from fill_name if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from fill_oob if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from fill_rescaler if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.

size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.

shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
iris |>
  gg_density(
    x = Sepal.Width,
  )

iris |>
  gg_density(
    x = Sepal.Width,
    fill = Species,
  )

iris |>
  gg_density(
    x = Sepal.Width,
    facet = Species,
  )
```

`gg_density2d`*Density 2d ggplot*

Description

A density 2d ggplot with [geom_density_2d\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_density2d(
  data,
  ...,
  geom = "density2d",
  stat = "density2d",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = FALSE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  xintercept = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
```



```
yintercept = NULL,  
z = NULL,  
fill = NULL,  
colour = NULL,  
alpha = NULL,  
shape = NULL,  
linetype = NULL,  
linewidth = NULL,  
size = NULL,  
stroke = NULL,  
label = NULL,  
weight = NULL,  
group = NULL,  
width = NULL,  
height = NULL,  
slope = NULL,  
intercept = NULL,  
sample = NULL,  
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",  
x_sec_axis = ggplot2::waiver(),  
x_transform = NULL,  
y_type = NULL,  
y_subtype = NULL,  
y_breaks = NULL,  
y_drop = TRUE,  
y_expand = NULL,  
y_guide = ggplot2::waiver(),  
y_labels = NULL,  
y_limits = NULL,  
y_minor_breaks = ggplot2::waiver(),  
y_name = ggplot2::waiver(),  
y_oob = scales::oob_censor,  
y_palette = seq_len,
```

```
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
```

```
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
```

)

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
<code>colour</code>	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
<code>alpha</code>	Variable mapped to alpha, or a set value.
<code>shape</code>	Variable mapped to shape, or a set value.
<code>linetype</code>	Variable mapped to linetype, or a set value.
<code>linewidth</code>	Variable mapped to linewidth, or a set value.
<code>size</code>	Variable mapped to size, or a set value.
<code>stroke</code>	Variable mapped to stroke, or a set value.
<code>label</code>	Variable mapped to label, or a set value.

weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.

y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
colour_guide	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
colour_labels	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
colour_limits	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
colour_name	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.

alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .

linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.

<code>coord_clip</code>	Whether drawing is clipped to the panel. Either "on" (default) or "off".
<code>coord_reverse</code>	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
<code>coord_ratio</code>	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
<code>title</code>	Plot title passed to <code>ggplot2::labs()</code> .
<code>subtitle</code>	Plot subtitle passed to <code>ggplot2::labs()</code> .
<code>caption</code>	Plot caption passed to <code>ggplot2::labs()</code> .
<code>ggplot</code>	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
iris |>
  gg_density2d(
    x = Sepal.Width,
    y = Sepal.Length,
  )

iris |>
  gg_density2d(
    x = Sepal.Width,
    y = Sepal.Length,
    fill = Species,
  )
```

<code>gg_density2d_filled</code>	<i>Density 2d filled ggplot</i>
----------------------------------	---------------------------------

Description

A density 2d filled ggplot with `geom_density_2d_filled()` defaults for the geom, stat and position.

Note `gg_density2d_filled` defaults to `colour = NA`.

Usage

```
gg_density2d_filled(
  data,
  ...,
  geom = "density2d_filled",
  stat = "density2d_filled",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
```

```

polygon = FALSE,
theme = NULL,
refine = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
xintercept = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
yintercept = NULL,
z = NULL,
fill = ggplot2::after_stat(.data$level),
colour = NULL,
alpha = NULL,
shape = NULL,
linetype = NULL,
linewidth = NULL,
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
```

```
y_type = NULL,  
y_subtype = NULL,  
y_breaks = NULL,  
y_drop = TRUE,  
y_expand = NULL,  
y_guide = ggplot2::waiver(),  
y_labels = NULL,  
y_limits = NULL,  
y_minor_breaks = ggplot2::waiver(),  
y_name = ggplot2::waiver(),  
y_oob = scales::oob_censor,  
y_palette = seq_len,  
y_position = "left",  
y_sec_axis = ggplot2::waiver(),  
y_transform = NULL,  
fill_type = NULL,  
fill_subtype = NULL,  
fill_breaks = ggplot2::waiver(),  
fill_drop = TRUE,  
fill_guide = NULL,  
fill_labels = NULL,  
fill_limits = NULL,  
fill_name = ggplot2::waiver(),  
fill_oob = scales::oob_censor,  
fill_rescaler = scales::rescale,  
fill_palette = NULL,  
fill_transform = NULL,  
colour_type = NULL,  
colour_subtype = NULL,  
colour_breaks = NULL,  
colour_drop = NULL,  
colour_guide = NULL,  
colour_labels = NULL,  
colour_limits = NULL,  
colour_name = fill_name,  
colour_oob = NULL,  
colour_rescaler = NULL,  
colour_palette = NULL,  
colour_transform = NULL,  
alpha_type = NULL,  
alpha_subtype = NULL,  
alpha_breaks = ggplot2::waiver(),  
alpha_drop = TRUE,  
alpha_guide = NULL,  
alpha_labels = NULL,  
alpha_limits = NULL,  
alpha_name = ggplot2::waiver(),  
alpha_oob = scales::oob_censor,
```

```
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
```

```

    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.

<code>colour</code>	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
<code>alpha</code>	Variable mapped to alpha, or a set value.
<code>shape</code>	Variable mapped to shape, or a set value.
<code>linetype</code>	Variable mapped to linetype, or a set value.
<code>linewidth</code>	Variable mapped to linewidth, or a set value.
<code>size</code>	Variable mapped to size, or a set value.
<code>stroke</code>	Variable mapped to stroke, or a set value.
<code>label</code>	Variable mapped to label, or a set value.
<code>weight</code>	Variable mapped to weight, or a set value.
<code>group</code>	Variable mapped to group, or a set value.
<code>width</code>	Variable mapped to width, or a set value.
<code>height</code>	Variable mapped to height, or a set value.
<code>slope</code>	Variable mapped to slope, or a set value.
<code>intercept</code>	Variable mapped to intercept, or a set value.
<code>sample</code>	Variable mapped to sample, or a set value.
<code>angle</code>	Variable mapped to angle, or a set value.
<code>radius</code>	Variable mapped to radius, or a set value.
<code>mapping</code>	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
<code>x_type</code>	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>x_subtype</code>	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
<code>x_breaks</code>	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>x_drop</code>	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
<code>x_expand</code>	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>x_guide</code>	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_labels</code>	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>x_limits</code>	Limits for the x scale. Accepts a vector or a function.
<code>x_minor_breaks</code>	Minor breaks for the x scale.
<code>x_name</code>	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_oob</code>	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
<code>x_palette</code>	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
<code>x_position</code>	Position of the x axis. Either "bottom" (default) or "top".
<code>x_sec_axis</code>	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .

x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.

<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.

linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to ggplot2::facet_wrap() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_rows	Row variables for ggplot2::facet_grid() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_cols	Column variables for ggplot2::facet_grid() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".

<code>facet_axis_labels</code>	Which axis labels to draw on facet panels. Defaults to "all".
<code>facet_drop</code>	Whether to drop unused factor levels in facets. Defaults to TRUE.
<code>facet_labeller</code>	Labeller for facet strip labels. Defaults to "label_value".
<code>facet_ncol</code>	Number of columns for <code>ggplot2::facet_wrap()</code> .
<code>facet_nrow</code>	Number of rows for <code>ggplot2::facet_wrap()</code> .
<code>facet_scales</code>	Whether facet scales are fixed or free. Defaults to "fixed".
<code>facet_space</code>	Whether facet space is fixed or free. Defaults to "fixed".
<code>coord_xlim</code> , <code>coord_ylim</code>	Zoom limits within the coordinate system.
<code>coord_clip</code>	Whether drawing is clipped to the panel. Either "on" (default) or "off".
<code>coord_reverse</code>	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
<code>coord_ratio</code>	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
<code>title</code>	Plot title passed to <code>ggplot2::labs()</code> .
<code>subtitle</code>	Plot subtitle passed to <code>ggplot2::labs()</code> .
<code>caption</code>	Plot caption passed to <code>ggplot2::labs()</code> .
<code>ggplot</code>	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
iris |>
  gg_density2d_filled(
    x = Sepal.Width,
    y = Sepal.Length,
    fill_palette = scales::pal_viridis(option = "turbo"),
  )

iris |>
  gg_density2d_filled(
    x = Sepal.Width,
    y = Sepal.Length,
    facet = Species,
    fill_palette = scales::pal_viridis(option = "turbo"),
  )
```

gg_errorbar

Errorbar ggplot

Description

An errorbar ggplot with [geom_errorbar\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_errorbar(  
  data,  
  ...,  
  geom = "errorbar",  
  stat = "identity",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = FALSE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,
```

```

angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,

```

```
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
```

```

linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (ggplot2::position_identity()).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .

x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .

<code>x_drop</code>	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
<code>x_expand</code>	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>x_guide</code>	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_labels</code>	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>x_limits</code>	Limits for the x scale. Accepts a vector or a function.
<code>x_minor_breaks</code>	Minor breaks for the x scale.
<code>x_name</code>	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_oob</code>	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
<code>x_palette</code>	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
<code>x_position</code>	Position of the x axis. Either "bottom" (default) or "top".
<code>x_sec_axis</code>	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
<code>x_transform</code>	Transform for the x scale. Auto-detected from subtype if NULL.
<code>y_type</code>	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>y_subtype</code>	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
<code>y_breaks</code>	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>y_drop</code>	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
<code>y_expand</code>	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>y_guide</code>	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.

fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to scales::oob_censor .
fill_rescaler	Rescaler for the fill scale. Defaults to scales::rescale .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from fill_type if NULL.
colour_subtype	Scale subtype for colour. Inherits from fill_subtype if NULL.
colour_breaks	Breaks for the colour scale. Inherits from fill_breaks if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from fill_drop if NULL.
colour_guide	Guide for the colour scale. Inherits from fill_guide if NULL.
colour_labels	Labels for the colour scale. Inherits from fill_labels if NULL.
colour_limits	Limits for the colour scale. Inherits from fill_limits if NULL.
colour_name	Name/title for the colour scale. Inherits from fill_name if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from fill_oob if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from fill_rescaler if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.

size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.

shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```

iris |>
  dplyr::group_by(Species) |>
  dplyr::summarise(
    mean = mean(Sepal.Length),
    lower = mean(Sepal.Length) - sd(Sepal.Length),
    upper = mean(Sepal.Length) + sd(Sepal.Length),
  ) |>
  gg_errorbar(
    x = Species,
    y = mean,
    ymin = lower,
    ymax = upper,
  )

ggplot2::mpg |>
  dplyr::group_by(class, drv) |>
  dplyr::summarise(
    mean_hwy = mean(hwy),
    lower = mean_hwy - sd(hwy),
    upper = mean_hwy + sd(hwy),
  ) |>
  gg_errorbar(
    x = class,
    y = mean_hwy,
    ymin = lower,
    ymax = upper,
    fill = drv,
    position = ggplot2::position_dodge2(preserve = "single"),
  )

ggplot2::mpg |>
  dplyr::group_by(class, drv) |>
  dplyr::summarise(
    mean_hwy = mean(hwy),
    lower = mean_hwy - sd(hwy),
    upper = mean_hwy + sd(hwy),
  ) |>
  gg_errorbar(
    x = drv,
    y = mean_hwy,
    ymin = lower,
    ymax = upper,
    facet = class,
  )

```

Description

A freqpoly ggplot with `geom_freqpoly()` defaults for the geom, stat and position.

Usage

```
gg_freqpoly(  
  data,  
  ...,  
  geom = "freqpoly",  
  stat = "bin",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = FALSE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,  
  angle = NULL,  
  radius = NULL,  
  mapping = ggplot2::aes(),  
  x_type = NULL,  
  x_subtype = NULL,
```

```
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
```

```
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
```

```

    shape_guide = NULL,
    shape_labels = NULL,
    shape_limits = NULL,
    shape_name = ggplot2::waiver(),
    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (ggplot2::position_identity()).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.

xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.

<code>x_guide</code>	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_labels</code>	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>x_limits</code>	Limits for the x scale. Accepts a vector or a function.
<code>x_minor_breaks</code>	Minor breaks for the x scale.
<code>x_name</code>	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_oob</code>	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
<code>x_palette</code>	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
<code>x_position</code>	Position of the x axis. Either "bottom" (default) or "top".
<code>x_sec_axis</code>	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
<code>x_transform</code>	Transform for the x scale. Auto-detected from subtype if NULL.
<code>y_type</code>	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>y_subtype</code>	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
<code>y_breaks</code>	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>y_drop</code>	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
<code>y_expand</code>	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>y_guide</code>	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.

fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to scales::oob_censor .
fill_rescaler	Rescaler for the fill scale. Defaults to scales::rescale .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from fill_type if NULL.
colour_subtype	Scale subtype for colour. Inherits from fill_subtype if NULL.
colour_breaks	Breaks for the colour scale. Inherits from fill_breaks if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from fill_drop if NULL.
colour_guide	Guide for the colour scale. Inherits from fill_guide if NULL.
colour_labels	Labels for the colour scale. Inherits from fill_labels if NULL.
colour_limits	Limits for the colour scale. Inherits from fill_limits if NULL.
colour_name	Name/title for the colour scale. Inherits from fill_name if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from fill_oob if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from fill_rescaler if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.

size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.

shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::diamonds |>
  gg_freqpoly(
    x = carat,
  )
```

```
ggplot2::diamonds |>
  gg_freqpoly(
    x = carat,
```

```

      fill = cut,
    )

ggplot2::diamonds |>
  gg_freqpoly(
    x = carat,
    facet = cut,
  )

```

gg_hex

Hex ggplot

Description

A hex ggplot with [geom_hex\(\)](#) defaults for the geom, stat and position.

Note gg_hex defaults to colour = NA.

Usage

```

gg_hex(
  data,
  ...,
  geom = "hex",
  stat = "binhex",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = FALSE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  xintercept = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  yintercept = NULL,
  z = NULL,
  fill = ggplot2::after_stat(.data$count),
  colour = NULL,
  alpha = NULL,
  shape = NULL,
  linetype = NULL,

```

```
linewidth = NULL,
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
```

```
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
```



```

linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.

stat	A stat as a string ("identity"). Note relevant stat library must be loaded.
position	A position as a function (ggplot2::position_identity()).
before	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
with	A function to apply to the geom layer.
polygon	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
theme	A complete theme object. Defaults to the global theme set with ggplot2::set_theme().
refine	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with set_refine().
x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.

sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .

<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to scales::oob_censor .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to ggplot2::waiver() .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to scales::oob_censor .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to scales::rescale .
<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.

alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.

linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::diamonds |>
  gg_hex(
    x = carat,
    y = price,
  )
```

```
ggplot2::diamonds |>
  gg_hex(
    x = carat,
    y = price,
    facet = cut,
  )
```

gg_histogram

Histogram ggplot

Description

A histogram ggplot with [geom_histogram\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_histogram(
  data,
  ...,
  geom = "histogram",
  stat = "bin",
  position = ggplot2::position_stack(),
  before = NULL,
  with = NULL,
  polygon = TRUE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  xintercept = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
```

```
yintercept = NULL,  
z = NULL,  
fill = NULL,  
colour = NULL,  
alpha = NULL,  
shape = NULL,  
linetype = NULL,  
linewidth = NULL,  
size = NULL,  
stroke = NULL,  
label = NULL,  
weight = NULL,  
group = NULL,  
width = NULL,  
height = NULL,  
slope = NULL,  
intercept = NULL,  
sample = NULL,  
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",  
x_sec_axis = ggplot2::waiver(),  
x_transform = NULL,  
y_type = NULL,  
y_subtype = NULL,  
y_breaks = NULL,  
y_drop = TRUE,  
y_expand = NULL,  
y_guide = ggplot2::waiver(),  
y_labels = NULL,  
y_limits = NULL,  
y_minor_breaks = ggplot2::waiver(),  
y_name = ggplot2::waiver(),  
y_oob = scales::oob_censor,  
y_palette = seq_len,
```



```
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
```

```
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
```

)

Arguments

data	A data frame.
...	Arguments passed to the geom layer, including geom params.
geom	A geom as a string ("point"). Note relevant geom library must be loaded.
stat	A stat as a string ("identity"). Note relevant stat library must be loaded.
position	A position as a function (ggplot2::position_identity()).
before	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
with	A function to apply to the geom layer.
polygon	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
theme	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
refine	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.

weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.

y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
colour_guide	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
colour_labels	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
colour_limits	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
colour_name	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.

<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.
<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.
<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .

linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.

<code>coord_clip</code>	Whether drawing is clipped to the panel. Either "on" (default) or "off".
<code>coord_reverse</code>	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
<code>coord_ratio</code>	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
<code>title</code>	Plot title passed to <code>ggplot2::labs()</code> .
<code>subtitle</code>	Plot subtitle passed to <code>ggplot2::labs()</code> .
<code>caption</code>	Plot caption passed to <code>ggplot2::labs()</code> .
<code>ggplot</code>	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
iris |>
  gg_histogram(
    x = Sepal.Width,
  )

iris |>
  gg_histogram(
    x = Sepal.Width,
    fill = Species,
  )

iris |>
  gg_histogram(
    x = Sepal.Width,
    facet = Species,
  )
```

gg_jitter

Jitter ggplot

Description

A jitter ggplot with `geom_jitter()` defaults for the geom, stat and position.

Usage

```
gg_jitter(
  data,
  ...,
  geom = "jitter",
  stat = "identity",
  position = ggplot2::position_jitter(),
```



```
before = NULL,  
with = NULL,  
polygon = TRUE,  
theme = NULL,  
refine = NULL,  
x = NULL,  
xmin = NULL,  
xmax = NULL,  
xend = NULL,  
xintercept = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
yintercept = NULL,  
z = NULL,  
fill = NULL,  
colour = NULL,  
alpha = NULL,  
shape = NULL,  
linetype = NULL,  
linewidth = NULL,  
size = NULL,  
stroke = NULL,  
label = NULL,  
weight = NULL,  
group = NULL,  
width = NULL,  
height = NULL,  
slope = NULL,  
intercept = NULL,  
sample = NULL,  
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",
```

```
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
```

```
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
```

```

facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A <code>ggplot2</code> layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.

fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .

<code>x_position</code>	Position of the x axis. Either "bottom" (default) or "top".
<code>x_sec_axis</code>	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
<code>x_transform</code>	Transform for the x scale. Auto-detected from subtype if NULL.
<code>y_type</code>	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>y_subtype</code>	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
<code>y_breaks</code>	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>y_drop</code>	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
<code>y_expand</code>	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>y_guide</code>	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.

colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from fill_drop if NULL.
colour_guide	Guide for the colour scale. Inherits from fill_guide if NULL.
colour_labels	Labels for the colour scale. Inherits from fill_labels if NULL.
colour_limits	Limits for the colour scale. Inherits from fill_limits if NULL.
colour_name	Name/title for the colour scale. Inherits from fill_name if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from fill_oob if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from fill_rescaler if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.

<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.
<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.
<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to <code>scales::oob_censor</code> .
<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.
<code>linetype_breaks</code>	Breaks for the linetype scale.
<code>linetype_drop</code>	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
<code>linetype_guide</code>	Guide for the linetype scale. Defaults to NULL.
<code>linetype_labels</code>	Labels for the linetype scale.
<code>linetype_limits</code>	Limits for the linetype scale.
<code>linetype_name</code>	Name/title for the linetype scale.
<code>linetype_palette</code>	Palette for the linetype scale.
<code>shape_type</code>	Scale type for shape. Only "discrete" is supported.
<code>shape_breaks</code>	Breaks for the shape scale.
<code>shape_drop</code>	Whether to drop unused levels for the shape scale. Defaults to TRUE.
<code>shape_guide</code>	Guide for the shape scale. Defaults to NULL.
<code>shape_labels</code>	Labels for the shape scale.
<code>shape_limits</code>	Limits for the shape scale.
<code>shape_name</code>	Name/title for the shape scale.
<code>shape_palette</code>	Palette for the shape scale.
<code>facet</code>	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_rows</code>	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.

facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
iris |>
  gg_jitter(
    x = Sepal.Width,
    y = Sepal.Length,
  )
```

```
iris |>
  gg_jitter(
    x = Sepal.Width,
    y = Sepal.Length,
    fill = Species,
  )
```

```
iris |>
  gg_jitter(
    x = Sepal.Width,
    y = Sepal.Length,
    facet = Species,
  )
```

`gg_line`*Line ggplot*

Description

A line ggplot with [geom_line\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_line(  
  data,  
  ...,  
  geom = "line",  
  stat = "identity",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = FALSE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,
```

```
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
```

```
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
```

```

linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (ggplot2::position_identity()).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .

x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .

x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.

<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to scales::oob_censor .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to scales::rescale .
<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.

size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.

shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
library(dplyr)
library(ggplot2)

ggplot2::economics |>
  gg_line(
    x = date,
    y = unemploy,
    y_limits = \(x) range(x, 0),
  )

ggplot2::economics_long |>
  gg_line(
    x = date,
    y = value01,
    fill = variable,
  )

ggplot2::economics_long |>
  gg_line(
    x = date,
    y = value01,
    facet = variable,
  )

ggplot2::economics_long |>
  group_by(variable) |>
  slice_head(n = 10) |>
  filter(variable != "psavert") |>
  gg_point(
    x = date,
    y = value01,
    fill = variable,
    before = geom_line(),
  )
```

gg_linerange

Linerange ggplot

Description

A linerange ggplot with [geom_linerange\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_linerange(
```

```
data,
...,
geom = "linerrange",
stat = "identity",
position = ggplot2::position_identity(),
before = NULL,
with = NULL,
polygon = FALSE,
theme = NULL,
refine = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
xintercept = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
yintercept = NULL,
z = NULL,
fill = NULL,
colour = NULL,
alpha = NULL,
shape = NULL,
linetype = NULL,
linewidth = NULL,
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
```

```
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
```

```
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
```

```

    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A <code>ggplot2</code> layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.

yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.

x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.

<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.

size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to ggplot2::facet_wrap() . Accepts a bare variable name or ggplot2::vars() for multiple variables.

<code>facet_rows</code>	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_cols</code>	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_axes</code>	Which axes to draw on facet panels. Defaults to "margins".
<code>facet_axis_labels</code>	Which axis labels to draw on facet panels. Defaults to "all".
<code>facet_drop</code>	Whether to drop unused factor levels in facets. Defaults to TRUE.
<code>facet_labeller</code>	Labeller for facet strip labels. Defaults to "label_value".
<code>facet_ncol</code>	Number of columns for <code>ggplot2::facet_wrap()</code> .
<code>facet_nrow</code>	Number of rows for <code>ggplot2::facet_wrap()</code> .
<code>facet_scales</code>	Whether facet scales are fixed or free. Defaults to "fixed".
<code>facet_space</code>	Whether facet space is fixed or free. Defaults to "fixed".
<code>coord_xlim</code> , <code>coord_ylim</code>	Zoom limits within the coordinate system.
<code>coord_clip</code>	Whether drawing is clipped to the panel. Either "on" (default) or "off".
<code>coord_reverse</code>	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
<code>coord_ratio</code>	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
<code>title</code>	Plot title passed to <code>ggplot2::labs()</code> .
<code>subtitle</code>	Plot subtitle passed to <code>ggplot2::labs()</code> .
<code>caption</code>	Plot caption passed to <code>ggplot2::labs()</code> .
<code>ggplot</code>	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)

iris |>
  dplyr::group_by(Species) |>
  dplyr::summarise(
    mean = mean(Sepal.Length),
    lower = mean(Sepal.Length) - sd(Sepal.Length),
    upper = mean(Sepal.Length) + sd(Sepal.Length),
  ) |>
  gg_linerange(
    x = Species,
    y = mean,
    ymin = lower,
    ymax = upper,
  )
```

```
mpg |>
  dplyr::group_by(class, drv) |>
  dplyr::summarise(
    mean = mean(hwy),
    lower = mean - sd(hwy),
    upper = mean + sd(hwy),
  ) |>
  gg_linerange(
    x = class,
    ymin = lower,
    y = mean,
    ymax = upper,
    fill = drv,
    position = position_dodge2(width = 0.25),
  )

mpg |>
  dplyr::group_by(class, drv) |>
  dplyr::summarise(
    mean = mean(hwy),
    lower = mean - sd(hwy),
    upper = mean + sd(hwy),
  ) |>
  gg_linerange(
    x = drv,
    y = mean,
    ymin = lower,
    ymax = upper,
    facet = class,
  )

mpg |>
  dplyr::group_by(class, drv) |>
  dplyr::summarise(
    mean = mean(hwy),
    lower = mean - sd(hwy),
    upper = mean + sd(hwy),
  ) |>
  gg_point(
    x = class,
    ymin = lower,
    y = mean,
    ymax = upper,
    fill = drv,
    position = position_dodge2(width = 0.25),
    before = geom_linerange(
      position = position_dodge2(width = 0.25),
    )
  )

penguins |>
  dplyr::count(species, sex) |>
  tidyr::drop_na() |>
```

```

gg_point(
  x = species,
  y = n,
  fill = sex,
  position = position_dodge(width = 0.2),
  before = ggplot2::geom_linerange(
    aes(ymin = 0, ymax = n),
    position = position_dodge(width = 0.2),
  ),
)

```

gg_path

Path ggplot

Description

A path ggplot with [geom_path\(\)](#) defaults for the geom, stat and position.

Usage

```

gg_path(
  data,
  ...,
  geom = "path",
  stat = "identity",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = FALSE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  xintercept = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  yintercept = NULL,
  z = NULL,
  fill = NULL,
  colour = NULL,
  alpha = NULL,
  shape = NULL,
  linetype = NULL,
  linewidth = NULL,
)

```

```
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
```

```
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
```



```

    linewidth_name = ggplot2::waiver(),
    linewidth_oob = scales::oob_censor,
    linewidth_palette = NULL,
    linewidth_transform = NULL,
    linetype_type = NULL,
    linetype_breaks = ggplot2::waiver(),
    linetype_drop = TRUE,
    linetype_guide = NULL,
    linetype_labels = NULL,
    linetype_limits = NULL,
    linetype_name = ggplot2::waiver(),
    linetype_palette = NULL,
    shape_type = NULL,
    shape_breaks = ggplot2::waiver(),
    shape_drop = TRUE,
    shape_guide = NULL,
    shape_labels = NULL,
    shape_limits = NULL,
    shape_name = ggplot2::waiver(),
    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.

position	A position as a function (<code>ggplot2::position_identity()</code>).
before	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
with	A function to apply to the geom layer.
polygon	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
theme	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
refine	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.

angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .

<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.

alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.

linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
library(dplyr)
library(ggplot2)

ggplot2::economics |>
  gg_path(
    x = date,
    y = unemploy,
    y_limits = \(x) range(x, 0),
  )

ggplot2::economics_long |>
  gg_path(
    x = date,
    y = value01,
    fill = variable,
  )

ggplot2::economics_long |>
  gg_path(
    x = date,
    y = value01,
    facet = variable,
  )

ggplot2::economics_long |>
  group_by(variable) |>
  slice_head(n = 10) |>
  filter(variable != "psavert") |>
  gg_point(
    x = date,
    y = value01,
    fill = variable,
    before = geom_path(),
  )
```

gg_point

Point ggplot

Description

A point ggplot with [geom_point\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_point(  
  data,  
  ...,  
  geom = "point",  
  stat = "identity",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = TRUE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,  
  angle = NULL,  
  radius = NULL,  
  mapping = ggplot2::aes(),  
  x_type = NULL,  
  x_subtype = NULL,  
  x_breaks = NULL,  
  x_drop = TRUE,  
  x_expand = NULL,  
  x_guide = ggplot2::waiver(),
```



```
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
```

```
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
```

```

    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.

ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .

x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .

<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.

size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.

shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
library(dplyr)
library(ggplot2)

iris |>
  gg_point(
    x = Sepal.Width,
    y = Sepal.Length,
  )

iris |>
  gg_point(
    x = Sepal.Width,
```



```
    y = Sepal.Length,
    fill = Species,
  )

iris |>
  gg_point(
    x = Sepal.Width,
    y = Sepal.Length,
    facet = Species,
  )

mpg |>
  group_by(class, drv) |>
  summarise(
    mean = mean(hwy),
    lower = mean - sd(hwy),
    upper = mean + sd(hwy),
  ) |>
  gg_point(
    x = class,
    ymin = lower,
    y = mean,
    ymax = upper,
    fill = drv,
    position = position_dodge2(width = 0.25),
    before = geom_linerange(
      position = position_dodge2(width = 0.25),
    )
  )

penguins |>
  count(species, sex) |>
  tidyr::drop_na() |>
  gg_point(
    x = species,
    y = n,
    fill = sex,
    position = position_dodge(width = 0.2),
    before = geom_linerange(
      aes(ymin = 0, ymax = n),
      position = position_dodge(width = 0.2),
    ),
  )
```

Description

A polygon ggplot with `geom_polygon()` defaults for the geom, stat and position.

Usage

```
gg_polygon(  
  data,  
  ...,  
  geom = "polygon",  
  stat = "identity",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = TRUE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,  
  angle = NULL,  
  radius = NULL,  
  mapping = ggplot2::aes(),  
  x_type = NULL,  
  x_subtype = NULL,  
  x_breaks = NULL,  
  x_drop = TRUE,  
  x_expand = NULL,  
  x_guide = ggplot2::waiver(),
```

```
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
```

```
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
```

```

    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.

ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .

x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .

<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.

size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.

<code>shape_palette</code>	Palette for the shape scale.
<code>facet</code>	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_rows</code>	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_cols</code>	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_axes</code>	Which axes to draw on facet panels. Defaults to "margins".
<code>facet_axis_labels</code>	Which axis labels to draw on facet panels. Defaults to "all".
<code>facet_drop</code>	Whether to drop unused factor levels in facets. Defaults to TRUE.
<code>facet_labeller</code>	Labeller for facet strip labels. Defaults to "label_value".
<code>facet_ncol</code>	Number of columns for <code>ggplot2::facet_wrap()</code> .
<code>facet_nrow</code>	Number of rows for <code>ggplot2::facet_wrap()</code> .
<code>facet_scales</code>	Whether facet scales are fixed or free. Defaults to "fixed".
<code>facet_space</code>	Whether facet space is fixed or free. Defaults to "fixed".
<code>coord_xlim, coord_ylim</code>	Zoom limits within the coordinate system.
<code>coord_clip</code>	Whether drawing is clipped to the panel. Either "on" (default) or "off".
<code>coord_reverse</code>	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
<code>coord_ratio</code>	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
<code>title</code>	Plot title passed to <code>ggplot2::labs()</code> .
<code>subtitle</code>	Plot subtitle passed to <code>ggplot2::labs()</code> .
<code>caption</code>	Plot caption passed to <code>ggplot2::labs()</code> .
<code>ggplot</code>	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
tibble::tibble(
  x = c(0, 1, 1, 0, 2, 3, 3, 2),
  y = c(0, 0, 1, 1, 0, 0, 1, 1),
  group = c("a", "a", "a", "a", "b", "b", "b", "b"),
) |>
  gg_polygon(
    x = x,
    y = y,
    group = group,
  )

tibble::tibble(
```

```

x = c(0, 1, 1, 0, 2, 3, 3, 2),
y = c(0, 0, 1, 1, 0, 0, 1, 1),
group = c("a", "a", "a", "a", "b", "b", "b", "b"),
) |>
gg_polygon(
  x = x,
  y = y,
  group = group,
  fill = group,
)

tibble::tibble(
  x = c(0, 1, 1, 0, 2, 3, 3, 2),
  y = c(0, 0, 1, 1, 0, 0, 1, 1),
  group = c("a", "a", "a", "a", "b", "b", "b", "b"),
) |>
gg_polygon(
  x = x,
  y = y,
  group = group,
  facet = group,
)

```

gg_qq

*QQ ggplot***Description**

A qq ggplot with [geom_qq\(\)](#) defaults for the geom, stat and position. defaults for the geom, stat and position.

Usage

```

gg_qq(
  data,
  ...,
  geom = "qq",
  stat = "qq",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = TRUE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,

```

```
xintercept = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
yintercept = NULL,  
z = NULL,  
fill = NULL,  
colour = NULL,  
alpha = NULL,  
shape = NULL,  
linetype = NULL,  
linewidth = NULL,  
size = NULL,  
stroke = NULL,  
label = NULL,  
weight = NULL,  
group = NULL,  
width = NULL,  
height = NULL,  
slope = NULL,  
intercept = NULL,  
sample = NULL,  
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",  
x_sec_axis = ggplot2::waiver(),  
x_transform = NULL,  
y_type = NULL,  
y_subtype = NULL,  
y_breaks = NULL,  
y_drop = TRUE,  
y_expand = NULL,  
y_guide = ggplot2::waiver(),  
y_labels = NULL,
```

```
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
```

```
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
```

```

    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A <code>ggplot2</code> layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
<code>colour</code>	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
<code>alpha</code>	Variable mapped to alpha, or a set value.
<code>shape</code>	Variable mapped to shape, or a set value.
<code>linetype</code>	Variable mapped to linetype, or a set value.
<code>linewidth</code>	Variable mapped to linewidth, or a set value.

size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .

y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
colour_guide	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
colour_labels	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
colour_limits	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
colour_name	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.

<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.
<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.

<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.
<code>linetype_breaks</code>	Breaks for the linetype scale.
<code>linetype_drop</code>	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
<code>linetype_guide</code>	Guide for the linetype scale. Defaults to NULL.
<code>linetype_labels</code>	Labels for the linetype scale.
<code>linetype_limits</code>	Limits for the linetype scale.
<code>linetype_name</code>	Name/title for the linetype scale.
<code>linetype_palette</code>	Palette for the linetype scale.
<code>shape_type</code>	Scale type for shape. Only "discrete" is supported.
<code>shape_breaks</code>	Breaks for the shape scale.
<code>shape_drop</code>	Whether to drop unused levels for the shape scale. Defaults to TRUE.
<code>shape_guide</code>	Guide for the shape scale. Defaults to NULL.
<code>shape_labels</code>	Labels for the shape scale.
<code>shape_limits</code>	Limits for the shape scale.
<code>shape_name</code>	Name/title for the shape scale.
<code>shape_palette</code>	Palette for the shape scale.
<code>facet</code>	Variables to facet by, passed to ggplot2::facet_wrap() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
<code>facet_rows</code>	Row variables for ggplot2::facet_grid() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
<code>facet_cols</code>	Column variables for ggplot2::facet_grid() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
<code>facet_axes</code>	Which axes to draw on facet panels. Defaults to "margins".
<code>facet_axis_labels</code>	Which axis labels to draw on facet panels. Defaults to "all".
<code>facet_drop</code>	Whether to drop unused factor levels in facets. Defaults to TRUE.
<code>facet_labeller</code>	Labeller for facet strip labels. Defaults to "label_value".
<code>facet_ncol</code>	Number of columns for ggplot2::facet_wrap() .
<code>facet_nrow</code>	Number of rows for ggplot2::facet_wrap() .
<code>facet_scales</code>	Whether facet scales are fixed or free. Defaults to "fixed".

facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)

iris |>
  gg_qq(
    sample = Sepal.Width,
    before = geom_qq_line()
  )

iris |>
  gg_qq(
    sample = Sepal.Width,
    fill = Species,
    before = geom_qq_line()
  )

iris |>
  gg_qq(
    sample = Sepal.Width,
    facet = Species,
    before = geom_qq_line()
  )
```

gg_quantile	<i>Quantile ggplot</i>
-------------	------------------------

Description

A quantile ggplot with `geom_quantile()` defaults for the geom, stat and position.

Usage

```
gg_quantile(  
  data,  
  ...,  
  geom = "quantile",  
  stat = "quantile",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = FALSE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,  
  angle = NULL,  
  radius = NULL,  
  mapping = ggplot2::aes(),  
  x_type = NULL,  
  x_subtype = NULL,  
  x_breaks = NULL,  
  x_drop = TRUE,  
  x_expand = NULL,  
  x_guide = ggplot2::waiver(),
```

```
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
```

```
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
```

```

    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.

ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .

<code>x_limits</code>	Limits for the x scale. Accepts a vector or a function.
<code>x_minor_breaks</code>	Minor breaks for the x scale.
<code>x_name</code>	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_oob</code>	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
<code>x_palette</code>	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
<code>x_position</code>	Position of the x axis. Either "bottom" (default) or "top".
<code>x_sec_axis</code>	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
<code>x_transform</code>	Transform for the x scale. Auto-detected from subtype if NULL.
<code>y_type</code>	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>y_subtype</code>	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
<code>y_breaks</code>	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>y_drop</code>	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
<code>y_expand</code>	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>y_guide</code>	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .

fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from fill_type if NULL.
colour_subtype	Scale subtype for colour. Inherits from fill_subtype if NULL.
colour_breaks	Breaks for the colour scale. Inherits from fill_breaks if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from fill_drop if NULL.
colour_guide	Guide for the colour scale. Inherits from fill_guide if NULL.
colour_labels	Labels for the colour scale. Inherits from fill_labels if NULL.
colour_limits	Limits for the colour scale. Inherits from fill_limits if NULL.
colour_name	Name/title for the colour scale. Inherits from fill_name if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from fill_oob if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from fill_rescaler if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.

<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.
<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.
<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.
<code>linetype_breaks</code>	Breaks for the linetype scale.
<code>linetype_drop</code>	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
<code>linetype_guide</code>	Guide for the linetype scale. Defaults to NULL.
<code>linetype_labels</code>	Labels for the linetype scale.
<code>linetype_limits</code>	Limits for the linetype scale.
<code>linetype_name</code>	Name/title for the linetype scale.
<code>linetype_palette</code>	Palette for the linetype scale.
<code>shape_type</code>	Scale type for shape. Only "discrete" is supported.
<code>shape_breaks</code>	Breaks for the shape scale.
<code>shape_drop</code>	Whether to drop unused levels for the shape scale. Defaults to TRUE.
<code>shape_guide</code>	Guide for the shape scale. Defaults to NULL.
<code>shape_labels</code>	Labels for the shape scale.
<code>shape_limits</code>	Limits for the shape scale.
<code>shape_name</code>	Name/title for the shape scale.

shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
if (requireNamespace("quantreg", quietly = TRUE)) {
  iris |>
    gg_quantile(
      x = Sepal.Width,
      y = Sepal.Length,
    )

  iris |>
    gg_quantile(
      x = Sepal.Width,
      y = Sepal.Length,
      fill = Species,
    )
}
```

```
    )  
  
iris |>  
  gg_quantile(  
    x = Sepal.Width,  
    y = Sepal.Length,  
    facet = Species,  
  )  
}
```

`gg_raster`*Raster ggplot*

Description

A raster ggplot with `geom_raster()` defaults for the geom, stat and position.

Note `gg_raster` defaults to `colour = NA`.

Usage

```
gg_raster(  
  data,  
  ...,  
  geom = "raster",  
  stat = "identity",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = FALSE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,
```

```
linetype = NULL,
linewidth = NULL,
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
```

```
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
```



```

linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.

geom	A geom as a string ("point"). Note relevant geom library must be loaded.
stat	A stat as a string ("identity"). Note relevant stat library must be loaded.
position	A position as a function (ggplot2::position_identity()).
before	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
with	A function to apply to the geom layer.
polygon	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
theme	A complete theme object. Defaults to the global theme set with ggplot2::set_theme().
refine	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with set_refine().
x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.

intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.

<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.

alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.

linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::faithfuld |>
  gg_raster(
    x = waiting,
    y = eruptions,
    fill = density,
  )

ggplot2::faithfuld |>
  gg_raster(
    x = waiting,
    y = eruptions,
    fill = density,
  )

ggplot2::faithfuld |>
  dplyr::mutate(group = ifelse(waiting <= 65, "short", "long")) |>
  gg_raster(
    x = waiting,
    y = eruptions,
    fill = density,
    facet = group,
    facet_scales = "free_x",
  )
```

gg_rect

Rect ggplot

Description

A rect ggplot with [geom_rect\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_rect(
  data,
  ...,
  geom = "rect",
  stat = "identity",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = TRUE,
  theme = NULL,
```

```
refine = NULL,  
x = NULL,  
xmin = NULL,  
xmax = NULL,  
xend = NULL,  
xintercept = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
yintercept = NULL,  
z = NULL,  
fill = NULL,  
colour = NULL,  
alpha = NULL,  
shape = NULL,  
linetype = NULL,  
linewidth = NULL,  
size = NULL,  
stroke = NULL,  
label = NULL,  
weight = NULL,  
group = NULL,  
width = NULL,  
height = NULL,  
slope = NULL,  
intercept = NULL,  
sample = NULL,  
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",  
x_sec_axis = ggplot2::waiver(),  
x_transform = NULL,  
y_type = NULL,  
y_subtype = NULL,
```



```
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
```

```
size_type = NULL,  
size_subtype = NULL,  
size_breaks = ggplot2::waiver(),  
size_drop = TRUE,  
size_guide = NULL,  
size_labels = NULL,  
size_limits = NULL,  
size_name = ggplot2::waiver(),  
size_oob = scales::oob_censor,  
size_palette = NULL,  
size_transform = NULL,  
linewidth_type = NULL,  
linewidth_subtype = NULL,  
linewidth_breaks = ggplot2::waiver(),  
linewidth_drop = TRUE,  
linewidth_guide = NULL,  
linewidth_labels = NULL,  
linewidth_limits = NULL,  
linewidth_name = ggplot2::waiver(),  
linewidth_oob = scales::oob_censor,  
linewidth_palette = NULL,  
linewidth_transform = NULL,  
linetype_type = NULL,  
linetype_breaks = ggplot2::waiver(),  
linetype_drop = TRUE,  
linetype_guide = NULL,  
linetype_labels = NULL,  
linetype_limits = NULL,  
linetype_name = ggplot2::waiver(),  
linetype_palette = NULL,  
shape_type = NULL,  
shape_breaks = ggplot2::waiver(),  
shape_drop = TRUE,  
shape_guide = NULL,  
shape_labels = NULL,  
shape_limits = NULL,  
shape_name = ggplot2::waiver(),  
shape_palette = NULL,  
facet = NULL,  
facet_rows = NULL,  
facet_cols = NULL,  
facet_axes = "margins",  
facet_axis_labels = "all",  
facet_drop = TRUE,  
facet_labeller = "label_value",  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",
```

```

    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
<code>colour</code>	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.

alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.

y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
colour_guide	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.

<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.

linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to ggplot2::facet_wrap() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_rows	Row variables for ggplot2::facet_grid() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_cols	Column variables for ggplot2::facet_grid() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".

facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
tibble::tibble(
  xmin = c(1, 3),
  xmax = c(2, 4),
  ymin = c(1, 3),
  ymax = c(2, 4),
) |>
gg_rect(
  xmin = xmin,
  xmax = xmax,
  ymin = ymin,
  ymax = ymax,
)

tibble::tibble(
  xmin = c(1, 3),
  xmax = c(2, 4),
  ymin = c(1, 3),
  ymax = c(2, 4),
  group = c("a", "b"),
) |>
gg_rect(
  xmin = xmin,
  xmax = xmax,
  ymin = ymin,
  ymax = ymax,
```



```
      fill = group,
    )

    tibble::tibble(
      xmin = c(1, 3),
      xmax = c(2, 4),
      ymin = c(1, 3),
      ymax = c(2, 4),
      group = c("a", "b"),
    ) |>
    gg_rect(
      xmin = xmin,
      xmax = xmax,
      ymin = ymin,
      ymax = ymax,
      facet = group,
    )
```

gg_ribbon

Ribbon ggplot

Description

A ribbon ggplot with [geom_ribbon\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_ribbon(
  data,
  ...,
  geom = "ribbon",
  stat = "identity",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = TRUE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  xintercept = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
```

```
yintercept = NULL,
z = NULL,
fill = NULL,
colour = NULL,
alpha = NULL,
shape = NULL,
linetype = NULL,
linewidth = NULL,
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
```

```
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
```

```
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
```

)

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A <code>ggplot2</code> layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
<code>colour</code>	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
<code>alpha</code>	Variable mapped to alpha, or a set value.
<code>shape</code>	Variable mapped to shape, or a set value.
<code>linetype</code>	Variable mapped to linetype, or a set value.
<code>linewidth</code>	Variable mapped to linewidth, or a set value.
<code>size</code>	Variable mapped to size, or a set value.
<code>stroke</code>	Variable mapped to stroke, or a set value.
<code>label</code>	Variable mapped to label, or a set value.

weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.

y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
colour_guide	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
colour_labels	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
colour_limits	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
colour_name	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.

<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.
<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.
<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .

linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.

<code>coord_clip</code>	Whether drawing is clipped to the panel. Either "on" (default) or "off".
<code>coord_reverse</code>	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
<code>coord_ratio</code>	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
<code>title</code>	Plot title passed to <code>ggplot2::labs()</code> .
<code>subtitle</code>	Plot subtitle passed to <code>ggplot2::labs()</code> .
<code>caption</code>	Plot caption passed to <code>ggplot2::labs()</code> .
<code>ggplot</code>	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
tibble::tibble(year = 1875:1972, level = as.vector(LakeHuron)) |>
  dplyr::mutate(lower = level - 1, upper = level + 1) |>
  gg_ribbon(
    x = year,
    ymin = lower,
    ymax = upper,
    x_labels = \(x) x,
  )

ggplot2::economics_long |>
  dplyr::mutate(lower = value01 - 0.05, upper = value01 + 0.05) |>
  gg_ribbon(
    x = date,
    ymin = lower,
    ymax = upper,
    fill = variable,
  )

ggplot2::economics_long |>
  dplyr::mutate(lower = value01 - 0.05, upper = value01 + 0.05) |>
  gg_ribbon(
    x = date,
    ymin = lower,
    ymax = upper,
    facet = variable,
  )
```

gg_segment

Segment ggplot

Description

A segment ggplot with `geom_segment()` defaults for the geom, stat and position.

Usage

```
gg_segment(  
  data,  
  ...,  
  geom = "segment",  
  stat = "identity",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = FALSE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,  
  angle = NULL,  
  radius = NULL,  
  mapping = ggplot2::aes(),  
  x_type = NULL,  
  x_subtype = NULL,  
  x_breaks = NULL,  
  x_drop = TRUE,  
  x_expand = NULL,  
  x_guide = ggplot2::waiver(),
```

```
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
```

```
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
```

```

    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.

ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .

<code>x_limits</code>	Limits for the x scale. Accepts a vector or a function.
<code>x_minor_breaks</code>	Minor breaks for the x scale.
<code>x_name</code>	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_oob</code>	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
<code>x_palette</code>	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
<code>x_position</code>	Position of the x axis. Either "bottom" (default) or "top".
<code>x_sec_axis</code>	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
<code>x_transform</code>	Transform for the x scale. Auto-detected from subtype if NULL.
<code>y_type</code>	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>y_subtype</code>	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
<code>y_breaks</code>	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>y_drop</code>	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
<code>y_expand</code>	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>y_guide</code>	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .

fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from fill_type if NULL.
colour_subtype	Scale subtype for colour. Inherits from fill_subtype if NULL.
colour_breaks	Breaks for the colour scale. Inherits from fill_breaks if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from fill_drop if NULL.
colour_guide	Guide for the colour scale. Inherits from fill_guide if NULL.
colour_labels	Labels for the colour scale. Inherits from fill_labels if NULL.
colour_limits	Limits for the colour scale. Inherits from fill_limits if NULL.
colour_name	Name/title for the colour scale. Inherits from fill_name if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from fill_oob if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from fill_rescaler if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.

<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.
<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.
<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.
<code>linetype_breaks</code>	Breaks for the linetype scale.
<code>linetype_drop</code>	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
<code>linetype_guide</code>	Guide for the linetype scale. Defaults to NULL.
<code>linetype_labels</code>	Labels for the linetype scale.
<code>linetype_limits</code>	Limits for the linetype scale.
<code>linetype_name</code>	Name/title for the linetype scale.
<code>linetype_palette</code>	Palette for the linetype scale.
<code>shape_type</code>	Scale type for shape. Only "discrete" is supported.
<code>shape_breaks</code>	Breaks for the shape scale.
<code>shape_drop</code>	Whether to drop unused levels for the shape scale. Defaults to TRUE.
<code>shape_guide</code>	Guide for the shape scale. Defaults to NULL.
<code>shape_labels</code>	Labels for the shape scale.
<code>shape_limits</code>	Limits for the shape scale.
<code>shape_name</code>	Name/title for the shape scale.

shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
iris |>
  gg_point(
    x = Sepal.Width,
    y = Sepal.Length,
  )
```

```
iris |>
  gg_point(
    x = Sepal.Width,
    y = Sepal.Length,
    fill = Species,
  )
```

```

iris |>
  gg_point(
    x = Sepal.Width,
    y = Sepal.Length,
    facet = Species,
  )

tibble::tibble(
  x = c(1, 3),
  xend = c(2, 4),
  y = c(1, 3),
  yend = c(2, 4),
) |>
  gg_segment(
    x = x,
    xend = xend,
    y = y,
    yend = yend,
  )

tibble::tibble(
  x = c(1, 3),
  xend = c(2, 4),
  y = c(1, 3),
  yend = c(2, 4),
  group = c("a", "b"),
) |>
  gg_segment(
    x = x,
    xend = xend,
    y = y,
    yend = yend,
    fill = group,
  )

tibble::tibble(
  x = c(1, 3),
  xend = c(2, 4),
  y = c(1, 3),
  yend = c(2, 4),
  group = c("a", "b"),
) |>
  gg_segment(
    x = x,
    xend = xend,
    y = y,
    yend = yend,
    facet = group,
  )

```

gg_sf*Sf ggplot*

Description

A sf ggplot with [geom_sf\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_sf(  
  data,  
  ...,  
  geom = "sf",  
  stat = "sf",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = TRUE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,
```

```
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",  
x_sec_axis = ggplot2::waiver(),  
x_transform = NULL,  
y_type = NULL,  
y_subtype = NULL,  
y_breaks = NULL,  
y_drop = TRUE,  
y_expand = NULL,  
y_guide = ggplot2::waiver(),  
y_labels = NULL,  
y_limits = NULL,  
y_minor_breaks = ggplot2::waiver(),  
y_name = ggplot2::waiver(),  
y_oob = scales::oob_censor,  
y_palette = seq_len,  
y_position = "left",  
y_sec_axis = ggplot2::waiver(),  
y_transform = NULL,  
fill_type = NULL,  
fill_subtype = NULL,  
fill_breaks = ggplot2::waiver(),  
fill_drop = TRUE,  
fill_guide = NULL,  
fill_labels = NULL,  
fill_limits = NULL,  
fill_name = ggplot2::waiver(),  
fill_oob = scales::oob_censor,  
fill_rescaler = scales::rescale,  
fill_palette = NULL,  
fill_transform = NULL,  
colour_type = NULL,  
colour_subtype = NULL,  
colour_breaks = NULL,
```

```
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
```

```

linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (ggplot2::position_identity()).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .

x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .

<code>x_drop</code>	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
<code>x_expand</code>	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>x_guide</code>	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_labels</code>	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>x_limits</code>	Limits for the x scale. Accepts a vector or a function.
<code>x_minor_breaks</code>	Minor breaks for the x scale.
<code>x_name</code>	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_oob</code>	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
<code>x_palette</code>	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
<code>x_position</code>	Position of the x axis. Either "bottom" (default) or "top".
<code>x_sec_axis</code>	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
<code>x_transform</code>	Transform for the x scale. Auto-detected from subtype if NULL.
<code>y_type</code>	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>y_subtype</code>	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
<code>y_breaks</code>	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>y_drop</code>	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
<code>y_expand</code>	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>y_guide</code>	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.

fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to scales::oob_censor .
fill_rescaler	Rescaler for the fill scale. Defaults to scales::rescale .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from fill_type if NULL.
colour_subtype	Scale subtype for colour. Inherits from fill_subtype if NULL.
colour_breaks	Breaks for the colour scale. Inherits from fill_breaks if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from fill_drop if NULL.
colour_guide	Guide for the colour scale. Inherits from fill_guide if NULL.
colour_labels	Labels for the colour scale. Inherits from fill_labels if NULL.
colour_limits	Limits for the colour scale. Inherits from fill_limits if NULL.
colour_name	Name/title for the colour scale. Inherits from fill_name if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from fill_oob if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from fill_rescaler if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from fill_transform if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.

size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.

shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
if (requireNamespace("sf", quietly = TRUE)) {  
  
  d <- sf::st_read(system.file("shape/nc.shp", package = "sf"))  
  
  d |>  
    sf::st_centroid() |>  
    gg_sf()  
  
  d |>  
    gg_sf(  
      fill = AREA,  
    )  
  
}
```

gg_smooth

Smooth ggplot

Description

A smooth ggplot with [geom_smooth\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_smooth(  
  data,  
  ...,  
  geom = "smooth",  
  stat = "smooth",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = FALSE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,
```

```
colour = NULL,  
alpha = NULL,  
shape = NULL,  
linetype = NULL,  
linewidth = NULL,  
size = NULL,  
stroke = NULL,  
label = NULL,  
weight = NULL,  
group = NULL,  
width = NULL,  
height = NULL,  
slope = NULL,  
intercept = NULL,  
sample = NULL,  
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",  
x_sec_axis = ggplot2::waiver(),  
x_transform = NULL,  
y_type = NULL,  
y_subtype = NULL,  
y_breaks = NULL,  
y_drop = TRUE,  
y_expand = NULL,  
y_guide = ggplot2::waiver(),  
y_labels = NULL,  
y_limits = NULL,  
y_minor_breaks = ggplot2::waiver(),  
y_name = ggplot2::waiver(),  
y_oob = scales::oob_censor,  
y_palette = seq_len,  
y_position = "left",  
y_sec_axis = ggplot2::waiver(),  
y_transform = NULL,
```

```
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
```



```
  linewidth_breaks = ggplot2::waiver(),
  linewidth_drop = TRUE,
  linewidth_guide = NULL,
  linewidth_labels = NULL,
  linewidth_limits = NULL,
  linewidth_name = ggplot2::waiver(),
  linewidth_oob = scales::oob_censor,
  linewidth_palette = NULL,
  linewidth_transform = NULL,
  linetype_type = NULL,
  linetype_breaks = ggplot2::waiver(),
  linetype_drop = TRUE,
  linetype_guide = NULL,
  linetype_labels = NULL,
  linetype_limits = NULL,
  linetype_name = ggplot2::waiver(),
  linetype_palette = NULL,
  shape_type = NULL,
  shape_breaks = ggplot2::waiver(),
  shape_drop = TRUE,
  shape_guide = NULL,
  shape_labels = NULL,
  shape_limits = NULL,
  shape_name = ggplot2::waiver(),
  shape_palette = NULL,
  facet = NULL,
  facet_rows = NULL,
  facet_cols = NULL,
  facet_axes = "margins",
  facet_axis_labels = "all",
  facet_drop = TRUE,
  facet_labeller = "label_value",
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  facet_space = "fixed",
  coord_xlim = NULL,
  coord_ylim = NULL,
  coord_clip = NULL,
  coord_reverse = "none",
  coord_ratio = NULL,
  title = NULL,
  subtitle = NULL,
  caption = NULL,
  ggplot = NULL
)
```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A <code>ggplot2</code> layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
<code>colour</code>	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
<code>alpha</code>	Variable mapped to alpha, or a set value.
<code>shape</code>	Variable mapped to shape, or a set value.
<code>linetype</code>	Variable mapped to linetype, or a set value.
<code>linewidth</code>	Variable mapped to linewidth, or a set value.
<code>size</code>	Variable mapped to size, or a set value.
<code>stroke</code>	Variable mapped to stroke, or a set value.
<code>label</code>	Variable mapped to label, or a set value.
<code>weight</code>	Variable mapped to weight, or a set value.
<code>group</code>	Variable mapped to group, or a set value.

width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .

<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.

alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
alpha_guide	Guide for the alpha scale. Defaults to NULL.
alpha_labels	Labels for the alpha scale.
alpha_limits	Limits for the alpha scale.
alpha_name	Name/title for the alpha scale.
alpha_oob	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
alpha_palette	Palette for the alpha scale.
alpha_transform	Transform for the alpha scale.
size_type	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
size_subtype	Scale subtype for size. Auto-detected if NULL.
size_breaks	Breaks for the size scale.
size_drop	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
size_guide	Guide for the size scale. Defaults to NULL.
size_labels	Labels for the size scale.
size_limits	Limits for the size scale.
size_name	Name/title for the size scale.
size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .

<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.
<code>linetype_breaks</code>	Breaks for the linetype scale.
<code>linetype_drop</code>	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
<code>linetype_guide</code>	Guide for the linetype scale. Defaults to NULL.
<code>linetype_labels</code>	Labels for the linetype scale.
<code>linetype_limits</code>	Limits for the linetype scale.
<code>linetype_name</code>	Name/title for the linetype scale.
<code>linetype_palette</code>	Palette for the linetype scale.
<code>shape_type</code>	Scale type for shape. Only "discrete" is supported.
<code>shape_breaks</code>	Breaks for the shape scale.
<code>shape_drop</code>	Whether to drop unused levels for the shape scale. Defaults to TRUE.
<code>shape_guide</code>	Guide for the shape scale. Defaults to NULL.
<code>shape_labels</code>	Labels for the shape scale.
<code>shape_limits</code>	Limits for the shape scale.
<code>shape_name</code>	Name/title for the shape scale.
<code>shape_palette</code>	Palette for the shape scale.
<code>facet</code>	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_rows</code>	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_cols</code>	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_axes</code>	Which axes to draw on facet panels. Defaults to "margins".
<code>facet_axis_labels</code>	Which axis labels to draw on facet panels. Defaults to "all".
<code>facet_drop</code>	Whether to drop unused factor levels in facets. Defaults to TRUE.
<code>facet_labeller</code>	Labeller for facet strip labels. Defaults to "label_value".
<code>facet_ncol</code>	Number of columns for <code>ggplot2::facet_wrap()</code> .
<code>facet_nrow</code>	Number of rows for <code>ggplot2::facet_wrap()</code> .
<code>facet_scales</code>	Whether facet scales are fixed or free. Defaults to "fixed".
<code>facet_space</code>	Whether facet space is fixed or free. Defaults to "fixed".
<code>coord_xlim, coord_ylim</code>	Zoom limits within the coordinate system.

<code>coord_clip</code>	Whether drawing is clipped to the panel. Either "on" (default) or "off".
<code>coord_reverse</code>	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
<code>coord_ratio</code>	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
<code>title</code>	Plot title passed to <code>ggplot2::labs()</code> .
<code>subtitle</code>	Plot subtitle passed to <code>ggplot2::labs()</code> .
<code>caption</code>	Plot caption passed to <code>ggplot2::labs()</code> .
<code>ggplot</code>	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
iris |>
  gg_smooth(
    x = Sepal.Width,
    y = Sepal.Length,
  )

iris |>
  gg_smooth(
    x = Sepal.Width,
    y = Sepal.Length,
    fill = Species,
  )

iris |>
  gg_smooth(
    x = Sepal.Width,
    y = Sepal.Length,
    facet = Species,
  )
```

gg_spoke

Spoke ggplot

Description

A spoke ggplot with `geom_spoke()` defaults for the geom, stat and position.

Usage

```
gg_spoke(  
  data,  
  ...,  
  geom = "spoke",  
  stat = "identity",  
  position = ggplot2::position_identity(),  
  before = NULL,  
  with = NULL,  
  polygon = FALSE,  
  theme = NULL,  
  refine = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  xintercept = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  yintercept = NULL,  
  z = NULL,  
  fill = NULL,  
  colour = NULL,  
  alpha = NULL,  
  shape = NULL,  
  linetype = NULL,  
  linewidth = NULL,  
  size = NULL,  
  stroke = NULL,  
  label = NULL,  
  weight = NULL,  
  group = NULL,  
  width = NULL,  
  height = NULL,  
  slope = NULL,  
  intercept = NULL,  
  sample = NULL,  
  angle = NULL,  
  radius = NULL,  
  mapping = ggplot2::aes(),  
  x_type = NULL,  
  x_subtype = NULL,  
  x_breaks = NULL,  
  x_drop = TRUE,  
  x_expand = NULL,  
  x_guide = ggplot2::waiver(),
```



```
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
```

```
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
```

```

    shape_palette = NULL,
    facet = NULL,
    facet_rows = NULL,
    facet_cols = NULL,
    facet_axes = "margins",
    facet_axis_labels = "all",
    facet_drop = TRUE,
    facet_labeller = "label_value",
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.

ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .

<code>x_limits</code>	Limits for the x scale. Accepts a vector or a function.
<code>x_minor_breaks</code>	Minor breaks for the x scale.
<code>x_name</code>	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
<code>x_oob</code>	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
<code>x_palette</code>	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
<code>x_position</code>	Position of the x axis. Either "bottom" (default) or "top".
<code>x_sec_axis</code>	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
<code>x_transform</code>	Transform for the x scale. Auto-detected from subtype if NULL.
<code>y_type</code>	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>y_subtype</code>	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
<code>y_breaks</code>	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>y_drop</code>	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
<code>y_expand</code>	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>y_guide</code>	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .

<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.

size_oob	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
size_palette	Palette for the size scale.
size_transform	Transform for the size scale.
linewidth_type	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
linewidth_subtype	Scale subtype for linewidth. Auto-detected if NULL.
linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.

<code>shape_palette</code>	Palette for the shape scale.
<code>facet</code>	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_rows</code>	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_cols</code>	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_axes</code>	Which axes to draw on facet panels. Defaults to "margins".
<code>facet_axis_labels</code>	Which axis labels to draw on facet panels. Defaults to "all".
<code>facet_drop</code>	Whether to drop unused factor levels in facets. Defaults to TRUE.
<code>facet_labeller</code>	Labeller for facet strip labels. Defaults to "label_value".
<code>facet_ncol</code>	Number of columns for <code>ggplot2::facet_wrap()</code> .
<code>facet_nrow</code>	Number of rows for <code>ggplot2::facet_wrap()</code> .
<code>facet_scales</code>	Whether facet scales are fixed or free. Defaults to "fixed".
<code>facet_space</code>	Whether facet space is fixed or free. Defaults to "fixed".
<code>coord_xlim, coord_ylim</code>	Zoom limits within the coordinate system.
<code>coord_clip</code>	Whether drawing is clipped to the panel. Either "on" (default) or "off".
<code>coord_reverse</code>	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
<code>coord_ratio</code>	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
<code>title</code>	Plot title passed to <code>ggplot2::labs()</code> .
<code>subtitle</code>	Plot subtitle passed to <code>ggplot2::labs()</code> .
<code>caption</code>	Plot caption passed to <code>ggplot2::labs()</code> .
<code>ggplot</code>	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
expand.grid(x = 1:10, y = 1:10) |>
  tibble::as_tibble() |>
  dplyr::mutate(
    angle = runif(100, 0, 2 * pi),
    speed = runif(100, 0, sqrt(0.1 * x)),
  ) |>
  gg_spoke(
    x = x,
    y = y,
    angle = angle,
    radius = speed,
  )
```



```
expand.grid(x = 1:10, y = 1:10) |>
  tibble::as_tibble() |>
  dplyr::mutate(
    angle = runif(100, 0, 2 * pi),
    speed = runif(100, 0, sqrt(0.1 * x)),
  ) |>
  gg_spoke(
    x = x,
    y = y,
    angle = angle,
    radius = speed,
    fill = speed,
  )

expand.grid(x = 1:10, y = 1:10) |>
  tibble::as_tibble() |>
  dplyr::mutate(
    angle = runif(100, 0, 2 * pi),
    speed = runif(100, 0, sqrt(0.1 * x)),
    group = ifelse(x <= 5, "left", "right"),
  ) |>
  gg_spoke(
    x = x,
    y = y,
    angle = angle,
    radius = speed,
    facet = group,
  )
```

gg_step

Step ggplot

Description

A step ggplot with [geom_step\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_step(
  data,
  ...,
  geom = "step",
  stat = "identity",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = FALSE,
```

```
theme = NULL,  
refine = NULL,  
x = NULL,  
xmin = NULL,  
xmax = NULL,  
xend = NULL,  
xintercept = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
yintercept = NULL,  
z = NULL,  
fill = NULL,  
colour = NULL,  
alpha = NULL,  
shape = NULL,  
linetype = NULL,  
linewidth = NULL,  
size = NULL,  
stroke = NULL,  
label = NULL,  
weight = NULL,  
group = NULL,  
width = NULL,  
height = NULL,  
slope = NULL,  
intercept = NULL,  
sample = NULL,  
angle = NULL,  
radius = NULL,  
mapping = ggplot2::aes(),  
x_type = NULL,  
x_subtype = NULL,  
x_breaks = NULL,  
x_drop = TRUE,  
x_expand = NULL,  
x_guide = ggplot2::waiver(),  
x_labels = NULL,  
x_limits = NULL,  
x_minor_breaks = ggplot2::waiver(),  
x_name = ggplot2::waiver(),  
x_oob = scales::oob_censor,  
x_palette = seq_len,  
x_position = "bottom",  
x_sec_axis = ggplot2::waiver(),  
x_transform = NULL,  
y_type = NULL,
```

```
y_subtype = NULL,  
y_breaks = NULL,  
y_drop = TRUE,  
y_expand = NULL,  
y_guide = ggplot2::waiver(),  
y_labels = NULL,  
y_limits = NULL,  
y_minor_breaks = ggplot2::waiver(),  
y_name = ggplot2::waiver(),  
y_oob = scales::oob_censor,  
y_palette = seq_len,  
y_position = "left",  
y_sec_axis = ggplot2::waiver(),  
y_transform = NULL,  
fill_type = NULL,  
fill_subtype = NULL,  
fill_breaks = ggplot2::waiver(),  
fill_drop = TRUE,  
fill_guide = NULL,  
fill_labels = NULL,  
fill_limits = NULL,  
fill_name = ggplot2::waiver(),  
fill_oob = scales::oob_censor,  
fill_rescaler = scales::rescale,  
fill_palette = NULL,  
fill_transform = NULL,  
colour_type = NULL,  
colour_subtype = NULL,  
colour_breaks = NULL,  
colour_drop = NULL,  
colour_guide = NULL,  
colour_labels = NULL,  
colour_limits = NULL,  
colour_name = fill_name,  
colour_oob = NULL,  
colour_rescaler = NULL,  
colour_palette = NULL,  
colour_transform = NULL,  
alpha_type = NULL,  
alpha_subtype = NULL,  
alpha_breaks = ggplot2::waiver(),  
alpha_drop = TRUE,  
alpha_guide = NULL,  
alpha_labels = NULL,  
alpha_limits = NULL,  
alpha_name = ggplot2::waiver(),  
alpha_oob = scales::oob_censor,  
alpha_palette = NULL,
```

```
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
```

```

    facet_scales = "fixed",
    facet_space = "fixed",
    coord_xlim = NULL,
    coord_ylim = NULL,
    coord_clip = NULL,
    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.

colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .

x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.
y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.

<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.

linewidth_breaks	Breaks for the linewidth scale.
linewidth_drop	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
linewidth_guide	Guide for the linewidth scale. Defaults to NULL.
linewidth_labels	Labels for the linewidth scale.
linewidth_limits	Limits for the linewidth scale.
linewidth_name	Name/title for the linewidth scale.
linewidth_oob	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
linewidth_palette	Palette for the linewidth scale.
linewidth_transform	Transform for the linewidth scale.
linetype_type	Scale type for linetype. Only "discrete" is supported.
linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to ggplot2::facet_wrap() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_rows	Row variables for ggplot2::facet_grid() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_cols	Column variables for ggplot2::facet_grid() . Accepts a bare variable name or ggplot2::vars() for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".

facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
library(dplyr)
library(ggplot2)

ggplot2::economics |>
  gg_step(
    x = date,
    y = unemploy,
    y_limits = \(x) range(x, 0),
  )

ggplot2::economics_long |>
  gg_step(
    x = date,
    y = value01,
    fill = variable,
  )

ggplot2::economics_long |>
  gg_step(
    x = date,
    y = value01,
    facet = ggplot2::vars(variable),
  )
```

```
ggplot2::economics_long |>
  group_by(variable) |>
  slice_head(n = 10) |>
  filter(variable != "psavert") |>
  gg_point(
    x = date,
    y = value01,
    fill = variable,
    before = geom_step(),
  )
```

gg_tile

Tile ggplot

Description

A tile ggplot with [geom_tile\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_tile(
  data,
  ...,
  geom = "tile",
  stat = "identity",
  position = ggplot2::position_identity(),
  before = NULL,
  with = NULL,
  polygon = TRUE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  xintercept = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  yintercept = NULL,
  z = NULL,
  fill = NULL,
  colour = NULL,
  alpha = NULL,
  shape = NULL,
```

```
linetype = NULL,
linewidth = NULL,
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
```

```
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
```

```

linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
coord_reverse = "none",
coord_ratio = NULL,
title = NULL,
subtitle = NULL,
caption = NULL,
ggplot = NULL
)

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.

geom	A geom as a string ("point"). Note relevant geom library must be loaded.
stat	A stat as a string ("identity"). Note relevant stat library must be loaded.
position	A position as a function (ggplot2::position_identity()).
before	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
with	A function to apply to the geom layer.
polygon	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
theme	A complete theme object. Defaults to the global theme set with ggplot2::set_theme().
refine	A function with arguments discrete and orientation to refine the theme based on these. Defaults to that globally set with set_refine().
x	Variable mapped to x.
xmin	Variable mapped to xmin.
xmax	Variable mapped to xmax.
xend	Variable mapped to xend.
xintercept	Variable mapped to xintercept.
y	Variable mapped to y.
ymin	Variable mapped to ymin.
ymax	Variable mapped to ymax.
yend	Variable mapped to yend.
yintercept	Variable mapped to yintercept.
z	Variable mapped to z.
fill	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
colour	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
alpha	Variable mapped to alpha, or a set value.
shape	Variable mapped to shape, or a set value.
linetype	Variable mapped to linetype, or a set value.
linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.

intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
y_breaks	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
y_drop	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
y_expand	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
y_guide	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_labels	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
y_limits	Limits for the y scale. Accepts a vector or a function.
y_minor_breaks	Minor breaks for the y scale.

y_name	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
y_oob	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
y_palette	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
y_position	Position of the y axis. Either "left" (default) or "right".
y_sec_axis	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
y_transform	Transform for the y scale. Auto-detected from subtype if NULL.
fill_type	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
fill_subtype	Scale subtype for fill. Auto-detected if NULL.
fill_breaks	Breaks for the fill scale.
fill_drop	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
fill_guide	Guide for the fill scale.
fill_labels	Labels for the fill scale.
fill_limits	Limits for the fill scale.
fill_name	Name/title for the fill scale.
fill_oob	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
fill_rescaler	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
fill_palette	Palette for the fill scale.
fill_transform	Transform for the fill scale. Auto-detected from subtype if NULL.
colour_type	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
colour_subtype	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
colour_breaks	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
colour_drop	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
colour_guide	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
colour_labels	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
colour_limits	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
colour_name	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.
colour_oob	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
colour_rescaler	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
colour_palette	Palette for the colour scale.
colour_transform	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
alpha_type	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
alpha_subtype	Scale subtype for alpha. Auto-detected if NULL.
alpha_breaks	Breaks for the alpha scale.
alpha_drop	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.

<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.
<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.
<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to scales::oob_censor .
<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.

linetype_breaks	Breaks for the linetype scale.
linetype_drop	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
linetype_guide	Guide for the linetype scale. Defaults to NULL.
linetype_labels	Labels for the linetype scale.
linetype_limits	Limits for the linetype scale.
linetype_name	Name/title for the linetype scale.
linetype_palette	Palette for the linetype scale.
shape_type	Scale type for shape. Only "discrete" is supported.
shape_breaks	Breaks for the shape scale.
shape_drop	Whether to drop unused levels for the shape scale. Defaults to TRUE.
shape_guide	Guide for the shape scale. Defaults to NULL.
shape_labels	Labels for the shape scale.
shape_limits	Limits for the shape scale.
shape_name	Name/title for the shape scale.
shape_palette	Palette for the shape scale.
facet	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_rows	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_cols	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
facet_axes	Which axes to draw on facet panels. Defaults to "margins".
facet_axis_labels	Which axis labels to draw on facet panels. Defaults to "all".
facet_drop	Whether to drop unused factor levels in facets. Defaults to TRUE.
facet_labeller	Labeller for facet strip labels. Defaults to "label_value".
facet_ncol	Number of columns for <code>ggplot2::facet_wrap()</code> .
facet_nrow	Number of rows for <code>ggplot2::facet_wrap()</code> .
facet_scales	Whether facet scales are fixed or free. Defaults to "fixed".
facet_space	Whether facet space is fixed or free. Defaults to "fixed".
coord_xlim, coord_ylim	Zoom limits within the coordinate system.
coord_clip	Whether drawing is clipped to the panel. Either "on" (default) or "off".
coord_reverse	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
coord_ratio	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
title	Plot title passed to <code>ggplot2::labs()</code> .
subtitle	Plot subtitle passed to <code>ggplot2::labs()</code> .
caption	Plot caption passed to <code>ggplot2::labs()</code> .
ggplot	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::faithfuld |>
  gg_tile(
    x = waiting,
    y = eruptions,
    fill = density,
    colour = NA,
  )

ggplot2::faithfuld |>
  dplyr::mutate(group = ifelse(waiting <= 65, "short", "long")) |>
  gg_tile(
    x = waiting,
    y = eruptions,
    fill = density,
    facet = ggplot2::vars(group),
    facet_scales = "free_x",
    colour = NA,
  )
```

gg_violin

Violin ggplot

Description

A violin ggplot with [geom_violin\(\)](#) defaults for the geom, stat and position.

Usage

```
gg_violin(
  data,
  ...,
  geom = "violin",
  stat = "ydensity",
  position = ggplot2::position_dodge(preserve = "single"),
  before = NULL,
  with = NULL,
  polygon = TRUE,
  theme = NULL,
  refine = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
```

```
xend = NULL,
xintercept = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
yintercept = NULL,
z = NULL,
fill = NULL,
colour = NULL,
alpha = NULL,
shape = NULL,
linetype = NULL,
linewidth = NULL,
size = NULL,
stroke = NULL,
label = NULL,
weight = NULL,
group = NULL,
width = NULL,
height = NULL,
slope = NULL,
intercept = NULL,
sample = NULL,
angle = NULL,
radius = NULL,
mapping = ggplot2::aes(),
x_type = NULL,
x_subtype = NULL,
x_breaks = NULL,
x_drop = TRUE,
x_expand = NULL,
x_guide = ggplot2::waiver(),
x_labels = NULL,
x_limits = NULL,
x_minor_breaks = ggplot2::waiver(),
x_name = ggplot2::waiver(),
x_oob = scales::oob_censor,
x_palette = seq_len,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_transform = NULL,
y_type = NULL,
y_subtype = NULL,
y_breaks = NULL,
y_drop = TRUE,
y_expand = NULL,
y_guide = ggplot2::waiver(),
```

```
y_labels = NULL,
y_limits = NULL,
y_minor_breaks = ggplot2::waiver(),
y_name = ggplot2::waiver(),
y_oob = scales::oob_censor,
y_palette = seq_len,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_transform = NULL,
fill_type = NULL,
fill_subtype = NULL,
fill_breaks = ggplot2::waiver(),
fill_drop = TRUE,
fill_guide = NULL,
fill_labels = NULL,
fill_limits = NULL,
fill_name = ggplot2::waiver(),
fill_oob = scales::oob_censor,
fill_rescaler = scales::rescale,
fill_palette = NULL,
fill_transform = NULL,
colour_type = NULL,
colour_subtype = NULL,
colour_breaks = NULL,
colour_drop = NULL,
colour_guide = NULL,
colour_labels = NULL,
colour_limits = NULL,
colour_name = fill_name,
colour_oob = NULL,
colour_rescaler = NULL,
colour_palette = NULL,
colour_transform = NULL,
alpha_type = NULL,
alpha_subtype = NULL,
alpha_breaks = ggplot2::waiver(),
alpha_drop = TRUE,
alpha_guide = NULL,
alpha_labels = NULL,
alpha_limits = NULL,
alpha_name = ggplot2::waiver(),
alpha_oob = scales::oob_censor,
alpha_palette = NULL,
alpha_transform = NULL,
size_type = NULL,
size_subtype = NULL,
size_breaks = ggplot2::waiver(),
size_drop = TRUE,
```

```
size_guide = NULL,
size_labels = NULL,
size_limits = NULL,
size_name = ggplot2::waiver(),
size_oob = scales::oob_censor,
size_palette = NULL,
size_transform = NULL,
linewidth_type = NULL,
linewidth_subtype = NULL,
linewidth_breaks = ggplot2::waiver(),
linewidth_drop = TRUE,
linewidth_guide = NULL,
linewidth_labels = NULL,
linewidth_limits = NULL,
linewidth_name = ggplot2::waiver(),
linewidth_oob = scales::oob_censor,
linewidth_palette = NULL,
linewidth_transform = NULL,
linetype_type = NULL,
linetype_breaks = ggplot2::waiver(),
linetype_drop = TRUE,
linetype_guide = NULL,
linetype_labels = NULL,
linetype_limits = NULL,
linetype_name = ggplot2::waiver(),
linetype_palette = NULL,
shape_type = NULL,
shape_breaks = ggplot2::waiver(),
shape_drop = TRUE,
shape_guide = NULL,
shape_labels = NULL,
shape_limits = NULL,
shape_name = ggplot2::waiver(),
shape_palette = NULL,
facet = NULL,
facet_rows = NULL,
facet_cols = NULL,
facet_axes = "margins",
facet_axis_labels = "all",
facet_drop = TRUE,
facet_labeller = "label_value",
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
coord_xlim = NULL,
coord_ylim = NULL,
coord_clip = NULL,
```

```

    coord_reverse = "none",
    coord_ratio = NULL,
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    ggplot = NULL
  )

```

Arguments

<code>data</code>	A data frame.
<code>...</code>	Arguments passed to the geom layer, including geom params.
<code>geom</code>	A geom as a string ("point"). Note relevant geom library must be loaded.
<code>stat</code>	A stat as a string ("identity"). Note relevant stat library must be loaded.
<code>position</code>	A position as a function (<code>ggplot2::position_identity()</code>).
<code>before</code>	A ggplot2 layer to add before the geom layer. Unaffected by polygon transformations.
<code>with</code>	A function to apply to the geom layer.
<code>polygon</code>	Whether to apply polygon colour and linewidth. TRUE forces polygon on, FALSE forces off.
<code>theme</code>	A complete theme object. Defaults to the global theme set with <code>ggplot2::set_theme()</code> .
<code>refine</code>	A function with arguments <code>discrete</code> and <code>orientation</code> to refine the theme based on these. Defaults to that globally set with <code>set_refine()</code> .
<code>x</code>	Variable mapped to x.
<code>xmin</code>	Variable mapped to xmin.
<code>xmax</code>	Variable mapped to xmax.
<code>xend</code>	Variable mapped to xend.
<code>xintercept</code>	Variable mapped to xintercept.
<code>y</code>	Variable mapped to y.
<code>ymin</code>	Variable mapped to ymin.
<code>ymax</code>	Variable mapped to ymax.
<code>yend</code>	Variable mapped to yend.
<code>yintercept</code>	Variable mapped to yintercept.
<code>z</code>	Variable mapped to z.
<code>fill</code>	Variable mapped to fill, or a set value. When mapped, colour inherits the same mapping unless colour is specified separately.
<code>colour</code>	Variable mapped to colour, or a set value. When not specified and fill is mapped, colour inherits from fill.
<code>alpha</code>	Variable mapped to alpha, or a set value.
<code>shape</code>	Variable mapped to shape, or a set value.
<code>linetype</code>	Variable mapped to linetype, or a set value.

linewidth	Variable mapped to linewidth, or a set value.
size	Variable mapped to size, or a set value.
stroke	Variable mapped to stroke, or a set value.
label	Variable mapped to label, or a set value.
weight	Variable mapped to weight, or a set value.
group	Variable mapped to group, or a set value.
width	Variable mapped to width, or a set value.
height	Variable mapped to height, or a set value.
slope	Variable mapped to slope, or a set value.
intercept	Variable mapped to intercept, or a set value.
sample	Variable mapped to sample, or a set value.
angle	Variable mapped to angle, or a set value.
radius	Variable mapped to radius, or a set value.
mapping	Additional aesthetic mappings from <code>ggplot2::aes()</code> , merged with individual aesthetic arguments.
x_type	Scale type for x. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
x_subtype	Scale subtype for x. One of "date", "datetime", "time", or NA. Auto-detected if NULL.
x_breaks	Breaks for the x scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
x_drop	Whether to drop unused levels for a discrete x scale. Defaults to TRUE.
x_expand	Expansion for the x scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
x_guide	Guide for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_labels	Labels for the x scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
x_limits	Limits for the x scale. Accepts a vector or a function.
x_minor_breaks	Minor breaks for the x scale.
x_name	Name/title for the x scale. Defaults to <code>ggplot2::waiver()</code> .
x_oob	Out-of-bounds handler for the x scale. Defaults to <code>scales::oob_censor</code> .
x_palette	Palette for a discrete x scale. Defaults to <code>seq_len</code> .
x_position	Position of the x axis. Either "bottom" (default) or "top".
x_sec_axis	Secondary axis for x. Defaults to <code>ggplot2::waiver()</code> .
x_transform	Transform for the x scale. Auto-detected from subtype if NULL.
y_type	Scale type for y. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
y_subtype	Scale subtype for y. One of "date", "datetime", "time", or NA. Auto-detected if NULL.

<code>y_breaks</code>	Breaks for the y scale. Defaults to <code>scales::breaks_pretty()</code> for date/datetime subtypes, otherwise <code>scales::breaks_extended()</code> .
<code>y_drop</code>	Whether to drop unused levels for a discrete y scale. Defaults to TRUE.
<code>y_expand</code>	Expansion for the y scale. Defaults to zero expansion where the limit is zero, otherwise 5% expansion.
<code>y_guide</code>	Guide for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_labels</code>	Labels for the y scale. Defaults to <code>scales::label_date_short()</code> for date/datetime, otherwise <code>scales::label_number()</code> .
<code>y_limits</code>	Limits for the y scale. Accepts a vector or a function.
<code>y_minor_breaks</code>	Minor breaks for the y scale.
<code>y_name</code>	Name/title for the y scale. Defaults to <code>ggplot2::waiver()</code> .
<code>y_oob</code>	Out-of-bounds handler for the y scale. Defaults to <code>scales::oob_censor</code> .
<code>y_palette</code>	Palette for a discrete y scale. Defaults to <code>seq_len</code> .
<code>y_position</code>	Position of the y axis. Either "left" (default) or "right".
<code>y_sec_axis</code>	Secondary axis for y. Defaults to <code>ggplot2::waiver()</code> .
<code>y_transform</code>	Transform for the y scale. Auto-detected from subtype if NULL.
<code>fill_type</code>	Scale type for fill. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>fill_subtype</code>	Scale subtype for fill. Auto-detected if NULL.
<code>fill_breaks</code>	Breaks for the fill scale.
<code>fill_drop</code>	Whether to drop unused levels for a discrete fill scale. Defaults to TRUE.
<code>fill_guide</code>	Guide for the fill scale.
<code>fill_labels</code>	Labels for the fill scale.
<code>fill_limits</code>	Limits for the fill scale.
<code>fill_name</code>	Name/title for the fill scale.
<code>fill_oob</code>	Out-of-bounds handler for the fill scale. Defaults to <code>scales::oob_censor</code> .
<code>fill_rescaler</code>	Rescaler for the fill scale. Defaults to <code>scales::rescale</code> .
<code>fill_palette</code>	Palette for the fill scale.
<code>fill_transform</code>	Transform for the fill scale. Auto-detected from subtype if NULL.
<code>colour_type</code>	Scale type for colour. Inherits from <code>fill_type</code> if NULL.
<code>colour_subtype</code>	Scale subtype for colour. Inherits from <code>fill_subtype</code> if NULL.
<code>colour_breaks</code>	Breaks for the colour scale. Inherits from <code>fill_breaks</code> if NULL.
<code>colour_drop</code>	Whether to drop unused levels for a discrete colour scale. Inherits from <code>fill_drop</code> if NULL.
<code>colour_guide</code>	Guide for the colour scale. Inherits from <code>fill_guide</code> if NULL.
<code>colour_labels</code>	Labels for the colour scale. Inherits from <code>fill_labels</code> if NULL.
<code>colour_limits</code>	Limits for the colour scale. Inherits from <code>fill_limits</code> if NULL.
<code>colour_name</code>	Name/title for the colour scale. Inherits from <code>fill_name</code> if NULL.

<code>colour_oob</code>	Out-of-bounds handler for the colour scale. Inherits from <code>fill_oob</code> if NULL.
<code>colour_rescaler</code>	Rescaler for the colour scale. Inherits from <code>fill_rescaler</code> if NULL.
<code>colour_palette</code>	Palette for the colour scale.
<code>colour_transform</code>	Transform for the colour scale. Inherits from <code>fill_transform</code> if NULL.
<code>alpha_type</code>	Scale type for alpha. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>alpha_subtype</code>	Scale subtype for alpha. Auto-detected if NULL.
<code>alpha_breaks</code>	Breaks for the alpha scale.
<code>alpha_drop</code>	Whether to drop unused levels for a discrete alpha scale. Defaults to TRUE.
<code>alpha_guide</code>	Guide for the alpha scale. Defaults to NULL.
<code>alpha_labels</code>	Labels for the alpha scale.
<code>alpha_limits</code>	Limits for the alpha scale.
<code>alpha_name</code>	Name/title for the alpha scale.
<code>alpha_oob</code>	Out-of-bounds handler for the alpha scale. Defaults to scales::oob_censor .
<code>alpha_palette</code>	Palette for the alpha scale.
<code>alpha_transform</code>	Transform for the alpha scale.
<code>size_type</code>	Scale type for size. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>size_subtype</code>	Scale subtype for size. Auto-detected if NULL.
<code>size_breaks</code>	Breaks for the size scale.
<code>size_drop</code>	Whether to drop unused levels for a discrete size scale. Defaults to TRUE.
<code>size_guide</code>	Guide for the size scale. Defaults to NULL.
<code>size_labels</code>	Labels for the size scale.
<code>size_limits</code>	Limits for the size scale.
<code>size_name</code>	Name/title for the size scale.
<code>size_oob</code>	Out-of-bounds handler for the size scale. Defaults to scales::oob_censor .
<code>size_palette</code>	Palette for the size scale.
<code>size_transform</code>	Transform for the size scale.
<code>linewidth_type</code>	Scale type for linewidth. One of "continuous", "discrete", or "binned". Auto-detected if NULL.
<code>linewidth_subtype</code>	Scale subtype for linewidth. Auto-detected if NULL.
<code>linewidth_breaks</code>	Breaks for the linewidth scale.
<code>linewidth_drop</code>	Whether to drop unused levels for a discrete linewidth scale. Defaults to TRUE.
<code>linewidth_guide</code>	Guide for the linewidth scale. Defaults to NULL.

<code>linewidth_labels</code>	Labels for the linewidth scale.
<code>linewidth_limits</code>	Limits for the linewidth scale.
<code>linewidth_name</code>	Name/title for the linewidth scale.
<code>linewidth_oob</code>	Out-of-bounds handler for the linewidth scale. Defaults to <code>scales::oob_censor</code> .
<code>linewidth_palette</code>	Palette for the linewidth scale.
<code>linewidth_transform</code>	Transform for the linewidth scale.
<code>linetype_type</code>	Scale type for linetype. Only "discrete" is supported.
<code>linetype_breaks</code>	Breaks for the linetype scale.
<code>linetype_drop</code>	Whether to drop unused levels for the linetype scale. Defaults to TRUE.
<code>linetype_guide</code>	Guide for the linetype scale. Defaults to NULL.
<code>linetype_labels</code>	Labels for the linetype scale.
<code>linetype_limits</code>	Limits for the linetype scale.
<code>linetype_name</code>	Name/title for the linetype scale.
<code>linetype_palette</code>	Palette for the linetype scale.
<code>shape_type</code>	Scale type for shape. Only "discrete" is supported.
<code>shape_breaks</code>	Breaks for the shape scale.
<code>shape_drop</code>	Whether to drop unused levels for the shape scale. Defaults to TRUE.
<code>shape_guide</code>	Guide for the shape scale. Defaults to NULL.
<code>shape_labels</code>	Labels for the shape scale.
<code>shape_limits</code>	Limits for the shape scale.
<code>shape_name</code>	Name/title for the shape scale.
<code>shape_palette</code>	Palette for the shape scale.
<code>facet</code>	Variables to facet by, passed to <code>ggplot2::facet_wrap()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_rows</code>	Row variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_cols</code>	Column variables for <code>ggplot2::facet_grid()</code> . Accepts a bare variable name or <code>ggplot2::vars()</code> for multiple variables.
<code>facet_axes</code>	Which axes to draw on facet panels. Defaults to "margins".
<code>facet_axis_labels</code>	Which axis labels to draw on facet panels. Defaults to "all".
<code>facet_drop</code>	Whether to drop unused factor levels in facets. Defaults to TRUE.
<code>facet_labeller</code>	Labeller for facet strip labels. Defaults to "label_value".

<code>facet_ncol</code>	Number of columns for <code>ggplot2::facet_wrap()</code> .
<code>facet_nrow</code>	Number of rows for <code>ggplot2::facet_wrap()</code> .
<code>facet_scales</code>	Whether facet scales are fixed or free. Defaults to "fixed".
<code>facet_space</code>	Whether facet space is fixed or free. Defaults to "fixed".
<code>coord_xlim</code> , <code>coord_ylim</code>	Zoom limits within the coordinate system.
<code>coord_clip</code>	Whether drawing is clipped to the panel. Either "on" (default) or "off".
<code>coord_reverse</code>	Which axes to reverse. One of "none" (default), "x", "y", or "xy".
<code>coord_ratio</code>	Aspect ratio expressed as y / x, for <code>ggplot2::coord_cartesian()</code> .
<code>title</code>	Plot title passed to <code>ggplot2::labs()</code> .
<code>subtitle</code>	Plot subtitle passed to <code>ggplot2::labs()</code> .
<code>caption</code>	Plot caption passed to <code>ggplot2::labs()</code> .
<code>ggplot</code>	A base ggplot object to use. Defaults to NULL, which uses <code>\(x) ggplot2::ggplot(x)</code> .

Value

A ggplot object.

Examples

```
ggplot2::diamonds |>
  gg_violin(
    x = color,
    y = carat,
    y_limits = c(0, NA),
  )

ggplot2::diamonds |>
  gg_violin(
    x = color,
    y = carat,
    fill = cut,
    y_limits = c(0, NA),
  )

ggplot2::diamonds |>
  dplyr::filter(cut %in% c("Premium", "Ideal")) |>
  gg_violin(
    x = color,
    y = carat,
    facet = ggplot2::vars(cut),
    y_limits = c(0, NA),
  )
```

set_colour_blend	<i>Set the ggblanket colour blend function</i>
------------------	--

Description

When `polygon = TRUE`, `colour_blend` is a function applied to the `fill` and `fill_palette` to derive the colour. Only one of the colour blend and fill blend can be active: setting a non-NULL colour blend clears any fill blend (last call wins), and the fill blend then defaults to identity.

Usage

```
set_colour_blend(new = NULL)
```

Arguments

<code>new</code>	A function of one argument (a colour vector), e.g. <code>blends::multiply()</code> . NULL (default) resets to the default: if no fill blend is set, <code>blends::multiply()</code> for light panels and <code>blends::screen()</code> for dark panels; otherwise identity.
------------------	---

Value

Invisibly, the previous value of the option.

Examples

```
set_colour_blend(\(x) blends::multiply(x))
```

set_fill_blend	<i>Set the ggblanket fill blend function</i>
----------------	--

Description

When `polygon = TRUE`, `fill_blend` is a function applied to the `colour` and `colour_palette` to derive the fill. Only one of the colour blend and fill blend can be active: setting a non-NULL fill blend clears any colour blend (last call wins), and the colour blend then defaults to identity.

Usage

```
set_fill_blend(new = NULL)
```

Arguments

<code>new</code>	A function of one argument (a colour vector), e.g. <code>\(x) scales::alpha(x, 0.75)</code> . NULL (default) resets to the default of identity.
------------------	---

Value

Invisibly, the previous value of the option.

Examples

```
set_fill_blend(\(x) scales::alpha(x, 0.75))
```

set_refine	<i>Set the ggblanket refine function</i>
------------	--

Description

set_refine() sets a global function that refines the theme depending on the plot's scale types. All other defaults (fill, colour, linewidth, palettes, etc.) are controlled through the theme, e.g. with `ggplot2::set_theme()`, `ggplot2::theme()` and `ggplot2::element_geom()`.

Usage

```
set_refine(new = NULL)
```

Arguments

new	A function with arguments <code>discrete</code> and <code>orientation</code> that returns a theme refinement. <code>NULL</code> (default) resets to <code>\(discrete, orientation) refine_axis_grid(discrete, orient</code>
-----	---

Value

Invisibly, the previous value of the option.

Examples

```
set_refine(\(discrete, orientation) refine_axis_grid(discrete, orientation))
```

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