

# Package: ggscribe (via r-universe)

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**Title** Publication-Quality 'ggplot2' Annotation

**Version** 1.0.0

**Description** Annotation helper functions for publication-quality 'ggplot2' visualisation. These functions make it easier to annotate plots in a way that stays consistent with the set theme.

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

**BugReports** <https://github.com/davidhodge931/ggscribe/issues>

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|                       |                                 |
|-----------------------|---------------------------------|
| annotate_axis_bracket | <i>Annotate an axis bracket</i> |
|-----------------------|---------------------------------|

---

Description

Draws one or more brackets along a floating axis line. Each bracket spans min(breaks) to max(breaks) with caps at every break value. Requires coord\_cartesian(clip = "off").

Usage

```
annotate_axis_bracket(  
  xintercept = NULL,  
  yintercept = NULL,  
  breaks,  
  length = ggplot2::rel(1),  
  colour = NULL,  
  linewidth = NULL,  
  linetype = NULL,  
  layout = NULL  
)
```

Arguments

|            |                                                                                                                                                                                                                                                          |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xintercept | One or more x positions for vertical axis lines, in data coordinates or wrapped in I() for normalised panel coordinates (npc). May be a vector; each value produces a separate axis.                                                                     |
| yintercept | One or more y positions for horizontal axis lines, in data coordinates or wrapped in I() for normalised panel coordinates (npc). May be a vector; each value produces a separate axis.                                                                   |
| breaks     | A numeric vector of length >= 2 in data coordinates, or wrapped in I() for npc. The bar spans min(breaks) to max(breaks); caps are drawn at every break value. Pass a list the same length as the total number of axes to use different breaks per axis. |

|           |                                                                                                                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| length    | Length of the bracket caps. Supports <code>rel()</code> . Negative values flip the cap direction. Defaults to <code>rel(1)</code> . May be a vector the same length as the number of axes.                                                              |
| colour    | Inherits from <code>axis.ticks</code> in the set theme (falling back through <code>axis.line</code> and <code>line</code> ). May be a vector the same length as the number of axes.                                                                     |
| linewidth | Inherits from <code>axis.ticks</code> in the set theme. Supports <code>rel()</code> . May be a vector the same length as the number of axes.                                                                                                            |
| linetype  | Inherits from <code>axis.ticks</code> in the set theme. May be a vector the same length as the number of axes.                                                                                                                                          |
| layout    | Controls which panels the annotation appears in. <code>NULL</code> (default) repeats in all panels. An integer targets a specific panel. "fixed" repeats in all panels ignoring faceting variables. See <code>ggplot2::layer()</code> for full details. |

## Details

Caps always point in the positive direction by default (right for `xintercept`, up for `yintercept`). Use a negative length to flip them (e.g. `length = -rel(1)`).

## Value

A list of `ggplot2` annotation layers.

---

|                    |                              |
|--------------------|------------------------------|
| annotate_axis_line | <i>Annotate an axis line</i> |
|--------------------|------------------------------|

---

## Description

Draws a full line at one or more floating positions, with style defaults taken from the `axis.line` element of the set theme. Requires `coord_cartesian(clip = "off")`.

## Usage

```
annotate_axis_line(
  xintercept = NULL,
  yintercept = NULL,
  colour = NULL,
  linewidth = NULL,
  linetype = NULL,
  arrow = NULL,
  layout = NULL
)
```

Arguments

|            |                                                                                                                                                                                                                                                                              |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xintercept | One or more x positions for vertical axis lines, in data coordinates or wrapped in <code>I()</code> for normalised panel coordinates (npc). May be a vector; each value produces a separate line.                                                                            |
| yintercept | One or more y positions for horizontal axis lines, in data coordinates or wrapped in <code>I()</code> for normalised panel coordinates (npc). May be a vector; each value produces a separate line.                                                                          |
| colour     | Inherits from <code>axis.line</code> in the set theme. May be a vector the same length as the total number of lines.                                                                                                                                                         |
| linewidth  | Inherits from <code>axis.line</code> in the set theme. Supports <code>rel()</code> . May be a vector the same length as the total number of lines.                                                                                                                           |
| linetype   | Inherits from <code>axis.line</code> in the set theme. May be a vector the same length as the total number of lines.                                                                                                                                                         |
| arrow      | A <code>grid::arrow()</code> specification, or a list the same length as the total number of lines. Must use <code>list()</code> not <code>c()</code> when supplying multiple values. E.g. <code>grid::arrow(angle = 15, length = unit(1.5, "mm"), type = "closed")</code> . |
| layout     | Controls which panels the annotation appears in. <code>NULL</code> (default) repeats in all panels. An integer targets a specific panel. <code>"fixed"</code> repeats in all panels ignoring faceting variables. See <code>ggplot2::layer()</code> for full details.         |

Details

The arrow (if any) points in the positive direction by default — rightward for `xintercept` lines, upward for `yintercept` lines.

Value

A list of `ggplot2` annotation layers.

---

|                    |                    |
|--------------------|--------------------|
| annotate_axis_text | Annotate axis text |
|--------------------|--------------------|

---

Description

Draws text labels at specified break positions along a floating axis line, with style defaults taken from the `axis.text` element of the set theme. Requires `coord_cartesian(clip = "off")`.

Usage

```
annotate_axis_text(  
  xintercept = NULL,  
  yintercept = NULL,  
  breaks,  
  labels = NULL,  
  length = ggplot2::rel(1),
```

```

    angle = 0,
    hjust = NULL,
    vjust = NULL,
    colour = NULL,
    size = NULL,
    family = NULL,
    layout = NULL
  )

```

## Arguments

|              |                                                                                                                                                                                                                                                                                                                                        |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xintercept   | One or more x positions for vertical axis lines, in data coordinates or wrapped in <code>I()</code> for normalised panel coordinates (npc). May be a vector; each value produces a separate axis.                                                                                                                                      |
| yintercept   | One or more y positions for horizontal axis lines, in data coordinates or wrapped in <code>I()</code> for normalised panel coordinates (npc). May be a vector; each value produces a separate axis.                                                                                                                                    |
| breaks       | A numeric vector of break positions in data coordinates, or wrapped in <code>I()</code> for npc. Pass a list the same length as the total number of axes to use different breaks per axis.                                                                                                                                             |
| labels       | One of: <ul style="list-style-type: none"> <li>• NULL (default) to use break values as labels</li> <li>• A character vector recycled across all breaks in order</li> <li>• A function taking break values and returning labels</li> <li>• A list the same length as the number of axes, each element being one of the above</li> </ul> |
| length       | Offset from the axis line including tick length and margin. Supports <code>rel()</code> . Negative values place text on the opposite side. Defaults to <code>rel(1)</code> . May be a vector recycled across all breaks in order.                                                                                                      |
| angle        | Text rotation angle. Defaults to 0. May be a vector recycled across all breaks in order.                                                                                                                                                                                                                                               |
| hjust, vjust | Justification. Auto-calculated from axis direction and angle if NULL. May be a vector recycled across all breaks in order.                                                                                                                                                                                                             |
| colour       | Inherits from <code>axis.text</code> in the set theme. May be a vector recycled across all breaks in order.                                                                                                                                                                                                                            |
| size         | Inherits from <code>axis.text</code> in the set theme. May be a vector recycled across all breaks in order.                                                                                                                                                                                                                            |
| family       | Inherits from <code>axis.text</code> in the set theme. May be a vector recycled across all breaks in order.                                                                                                                                                                                                                            |
| layout       | Controls which panels the annotation appears in. NULL (default) repeats in all panels. An integer targets a specific panel. "fixed" repeats in all panels ignoring faceting variables. See <code>ggplot2::layer()</code> for full details.                                                                                             |

## Details

Text always sits on the positive side of the axis by default (right of `xintercept` lines, above `yintercept` lines). Use a negative length to place text on the opposite side (e.g. `length = -rel(1)`).

## Value

A list of ggplot2 annotation layers.

---

|                                  |                            |
|----------------------------------|----------------------------|
| <code>annotate_axis_ticks</code> | <i>Annotate axis ticks</i> |
|----------------------------------|----------------------------|

---

## Description

Draws axis ticks at specified break positions along a floating axis line. Requires `coord_cartesian(clip = "off")`.

## Usage

```
annotate_axis_ticks(
  xintercept = NULL,
  yintercept = NULL,
  breaks,
  length = ggplot2::rel(1),
  colour = NULL,
  linewidth = NULL,
  linetype = NULL,
  arrow = NULL,
  layout = NULL
)
```

## Arguments

|                         |                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>xintercept</code> | One or more x positions for vertical axis lines, in data coordinates or wrapped in <code>I()</code> for normalised panel coordinates (npc). May be a vector; each value produces a separate axis.   |
| <code>yintercept</code> | One or more y positions for horizontal axis lines, in data coordinates or wrapped in <code>I()</code> for normalised panel coordinates (npc). May be a vector; each value produces a separate axis. |
| <code>breaks</code>     | A numeric vector of break positions in data coordinates, or wrapped in <code>I()</code> for npc. Pass a list the same length as the total number of axes to use different breaks per axis.          |
| <code>length</code>     | Total tick length. Supports <code>rel()</code> . Negative values flip the tick direction. Defaults to <code>rel(1)</code> . May be a vector recycled across all breaks in order.                    |
| <code>colour</code>     | Inherits from <code>axis.ticks</code> in the set theme. May be a vector recycled across all breaks in order.                                                                                        |

|           |                                                                                                                                                                                                                                                                                                       |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| linewidth | Inherits from <code>axis.ticks</code> in the set theme. Supports <code>rel()</code> . May be a vector recycled across all breaks in order.                                                                                                                                                            |
| linetype  | Inherits from <code>axis.ticks</code> in the set theme. May be a vector recycled across all breaks in order.                                                                                                                                                                                          |
| arrow     | A <code>grid::arrow()</code> specification, or a list recycled across all breaks. The arrowhead points toward the axis line. Must use <code>list()</code> not <code>c()</code> when supplying multiple values. E.g. <code>grid::arrow(angle = 15, length = unit(1.5, "mm"), type = "closed")</code> . |
| layout    | Controls which panels the annotation appears in. <code>NULL</code> (default) repeats in all panels. An integer targets a specific panel. "fixed" repeats in all panels ignoring faceting variables. See <code>ggplot2::layer()</code> for full details.                                               |

### Details

Ticks always point in the positive direction by default (right for `xintercept`, up for `yintercept`). Use a negative length to flip them (e.g. `length = -rel(1)`).

### Value

A list of `ggplot2` annotation layers.

---

annotate\_panel\_background

*Annotate a panel background region*

---

### Description

Draws filled rectangles over the panel. Defaults to the `panel.background` fill from the set theme at full opacity, making it useful for layering a solid background over existing content. Should be placed before geom layers.

### Usage

```
annotate_panel_background(
  xmin = -Inf,
  xmax = Inf,
  ymin = -Inf,
  ymax = Inf,
  fill = NULL,
  alpha = 1,
  colour = NULL,
  linewidth = NULL,
  linetype = 0,
  layout = NULL
)
```

**Arguments**

|            |                                                                                                                                                                                                                                                                                                                                               |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xmin, xmax | Left and right edges of the rectangle in data coordinates. Defaults to <code>-Inf</code> and <code>Inf</code> . Use <code>I()</code> for normalised coordinates (0-1). May be a vector for multiple rectangles. Bounds may be mixed freely, e.g. <code>xmin = I(0.5)</code> , <code>xmax = Inf</code> fills from 50% to the right panel edge. |
| ymin, ymax | Bottom and top edges of the rectangle in data coordinates. Defaults to <code>-Inf</code> and <code>Inf</code> . Use <code>I()</code> for normalised coordinates (0-1). May be a vector for multiple rectangles.                                                                                                                               |
| fill       | Fill colour. Defaults to the <code>panel.background</code> fill from the set theme, falling back to "white". May be a vector the same length as the bounds to style each rectangle individually.                                                                                                                                              |
| alpha      | Opacity. Defaults to 1 (fully opaque). May be a vector.                                                                                                                                                                                                                                                                                       |
| colour     | Border colour. Defaults to the resolved fill value, giving a seamless border. May be a vector.                                                                                                                                                                                                                                                |
| linewidth  | Inherits from <code>panel.border</code> in the set theme. Supports <code>rel()</code> . May be a vector.                                                                                                                                                                                                                                      |
| linetype   | Border linetype. Defaults to <code>0</code> (none). May be a vector.                                                                                                                                                                                                                                                                          |
| layout     | Controls which panels the annotation appears in. <code>NULL</code> (default) repeats in all panels. An integer targets a specific panel. "fixed" repeats in all panels ignoring faceting variables. See <code>ggplot2::layer()</code> for full details.                                                                                       |

**Value**

A list containing annotation layers.

---

|                                  |                                 |
|----------------------------------|---------------------------------|
| <code>annotate_panel_grid</code> | <i>Annotate panel gridlines</i> |
|----------------------------------|---------------------------------|

---

**Description**

Draws gridlines at specified positions, with style defaults taken from the `panel.grid.major` element of the set theme. Crop bounds (`xmin`, `xmax`, `ymin`, `ymax`) both filter which lines are drawn and control how far they run across the panel.

**Usage**

```
annotate_panel_grid(
  xintercept = NULL,
  yintercept = NULL,
  xmin = -Inf,
  xmax = Inf,
  ymin = -Inf,
  ymax = Inf,
  colour = NULL,
  linewidth = NULL,
  linetype = NULL,
  layout = NULL
)
```

## Arguments

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xintercept | One or more x positions for vertical gridlines, in data coordinates or wrapped in <code>I()</code> for normalised panel coordinates (npc). May be a vector.                                                                                                                                                                                                                                                                                                          |
| yintercept | One or more y positions for horizontal gridlines, in data coordinates or wrapped in <code>I()</code> for normalised panel coordinates (npc). May be a vector.                                                                                                                                                                                                                                                                                                        |
| xmin, xmax | Left and right crop bounds. Vertical gridlines outside <code>[xmin, xmax]</code> are not drawn; horizontal gridlines run only from <code>xmin</code> to <code>xmax</code> . Defaults to <code>-Inf</code> and <code>Inf</code> (full panel). Use <code>I()</code> for normalised coordinates (npc). Note: filtering (removing lines outside the range) only works when both the crop bound and the intercept are in data coordinates. npc bounds affect extent only. |
| ymin, ymax | Bottom and top crop bounds. Horizontal gridlines outside <code>[ymin, ymax]</code> are not drawn; vertical gridlines run only from <code>ymin</code> to <code>ymax</code> . Defaults to <code>-Inf</code> and <code>Inf</code> (full panel). Use <code>I()</code> for normalised coordinates (npc). Note: filtering only works when both the crop bound and the intercept are in data coordinates. npc bounds affect extent only.                                    |
| colour     | Inherits from <code>panel.grid.major</code> in the set theme. May be a vector the same length as the total number of lines.                                                                                                                                                                                                                                                                                                                                          |
| linewidth  | Inherits from <code>panel.grid.major</code> in the set theme. Supports <code>rel()</code> . May be a vector the same length as the total number of lines.                                                                                                                                                                                                                                                                                                            |
| linetype   | Inherits from <code>panel.grid.major</code> in the set theme. May be a vector the same length as the total number of lines.                                                                                                                                                                                                                                                                                                                                          |
| layout     | Controls which panels the annotation appears in. <code>NULL</code> (default) repeats in all panels. An integer targets a specific panel. "fixed" repeats in all panels ignoring faceting variables. See <code>ggplot2::layer()</code> for full details.                                                                                                                                                                                                              |

## Value

A list of ggplot2 annotation layers.

---

annotate\_panel\_shade    *Annotate a shaded panel region*

---

## Description

A convenience wrapper around `annotate_panel_background()` with a smart shade default which blends the panel background fill with `jumble::slate` at 25% opacity with no border. Should be placed before geom layers.

## Usage

```
annotate_panel_shade(
  xmin = -Inf,
  xmax = Inf,
  ymin = -Inf,
```

```

    ymax = Inf,
    fill = NULL,
    alpha = 0.2,
    colour = "transparent",
    linewidth = NULL,
    linetype = 1,
    layout = NULL
  )

```

### Arguments

|            |                                                                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xmin, xmax | Left and right edges of the rectangle in data coordinates. Defaults to $-\text{Inf}$ and $\text{Inf}$ . Use <code>I()</code> for normalised coordinates (0-1). May be a vector for multiple rectangles. Bounds may be mixed freely, e.g. <code>xmin = I(0.5)</code> , <code>xmax = Inf</code> fills from 50% to the right panel edge. |
| ymin, ymax | Bottom and top edges of the rectangle in data coordinates. Defaults to $-\text{Inf}$ and $\text{Inf}$ . Use <code>I()</code> for normalised coordinates (0-1). May be a vector for multiple rectangles.                                                                                                                               |
| fill       | Fill colour.                                                                                                                                                                                                                                                                                                                          |
| alpha      | Opacity. Defaults to 0.2. May be a vector.                                                                                                                                                                                                                                                                                            |
| colour     | Border colour. Defaults to "transparent". May be a vector.                                                                                                                                                                                                                                                                            |
| linewidth  | Inherits from <code>panel.border</code> in the set theme. Supports <code>rel()</code> . May be a vector.                                                                                                                                                                                                                              |
| linetype   | Border linetype. Defaults to 1. May be a vector.                                                                                                                                                                                                                                                                                      |
| layout     | Controls which panels the annotation appears in. NULL (default) repeats in all panels. An integer targets a specific panel. "fixed" repeats in all panels ignoring faceting variables. See <code>ggplot2::layer()</code> for full details.                                                                                            |

### Value

A list containing annotation layers.

---

annotate\_reference\_line

*Annotate a reference line*

---

### Description

Draws one or more reference lines within the panel, with style defaults taken from the `axis.line` element of the set theme.

## Usage

```
annotate_reference_line(
  xintercept = NULL,
  yintercept = NULL,
  colour = NULL,
  linewidth = NULL,
  linetype = "dashed",
  arrow = NULL,
  layout = NULL
)
```

## Arguments

|            |                                                                                                                                                                                                                                                                              |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| xintercept | One or more x positions for vertical reference lines, in data coordinates or wrapped in <code>I()</code> for normalised panel coordinates (npc). May be a vector; each value produces a separate line.                                                                       |
| yintercept | One or more y positions for horizontal reference lines, in data coordinates or wrapped in <code>I()</code> for normalised panel coordinates (npc). May be a vector; each value produces a separate line.                                                                     |
| colour     | Inherits from <code>axis.line</code> in the set theme. May be a vector the same length as the total number of lines.                                                                                                                                                         |
| linewidth  | Inherits from <code>axis.line</code> in the set theme. Supports <code>rel()</code> . May be a vector the same length as the total number of lines.                                                                                                                           |
| linetype   | Defaults to "dashed". May be a vector the same length as the total number of lines.                                                                                                                                                                                          |
| arrow      | A <code>grid::arrow()</code> specification, or a list the same length as the total number of lines. Must use <code>list()</code> not <code>c()</code> when supplying multiple values. E.g. <code>grid::arrow(angle = 15, length = unit(1.5, "mm"), type = "closed")</code> . |
| layout     | Controls which panels the annotation appears in. NULL (default) repeats in all panels. An integer targets a specific panel. "fixed" repeats in all panels ignoring faceting variables. See <code>ggplot2::layer()</code> for full details.                                   |

## Details

The arrow (if any) points in the positive direction by default — rightward for xintercept lines, upward for yintercept lines.

## Value

A list of ggplot2 annotation layers.

---

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| guide_sec_axis_text | <i>Guide optimised for secondary axis text annotations</i> |
|---------------------|------------------------------------------------------------|

---

### Description

A wrapper around `ggplot2::guide_axis()` that defaults to making transparent ticks and lines while preserving text, making it ideal for annotation labels.

### Usage

```
guide_sec_axis_text(..., theme = NULL)
```

### Arguments

|                    |                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>...</code>   | Additional arguments passed to <code>ggplot2::guide_axis()</code> , such as <code>title</code> , <code>check.overlap</code> , or <code>angle</code> . |
| <code>theme</code> | A theme object to style the secondary axis.                                                                                                           |

### Value

A guide object to be used in a scale's guide argument or within `sec_axis_text()`.

---

|               |                                            |
|---------------|--------------------------------------------|
| sec_axis_text | <i>Secondary axis for text annotations</i> |
|---------------|--------------------------------------------|

---

### Description

Secondary axis for text annotations

### Usage

```
sec_axis_text(
  breaks = function(x) mean(x),
  labels = ggplot2::waiver(),
  name = NULL,
  guide = guide_sec_axis_text(),
  ...
)
```

**Arguments**

|        |                                                                                                                                                                                                                                                                                                           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| breaks | A function or numeric vector giving the break position(s) used to anchor the text. Defaults to <code>\(x) mean(x)</code> , which places a single label at the midpoint of the scale limits for continuous scales.                                                                                         |
| labels | One of: <ul style="list-style-type: none"><li>• A character vector of labels, the same length as breaks</li><li>• A function that takes break positions as input and returns labels. If left as <code>ggplot2::waiver()</code>, labels are derived from the break positions and may be numeric.</li></ul> |
| name   | The name of the secondary axis. Use <code>ggplot2::waiver()</code> to derive the name from the primary axis, or NULL (default) for no name.                                                                                                                                                               |
| guide  | A guide object used to render the axis. Defaults to <code>guide_sec_axis_text()</code> , which makes transparent ticks and lines.                                                                                                                                                                         |
| ...    | Additional arguments passed to <code>ggplot2::dup_axis()</code> .                                                                                                                                                                                                                                         |

**Value**

A `AxisSecondary` object for use in the `sec.axis` argument of `scale_x_continuous()` or `scale_y_continuous()`.

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