

Package ‘scplot’

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Type Package

Title Plot Function for Single-Case Data Frames

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Description Add-on for the 'scan' package that creates plots from single-case data frames ('scdf'). It includes functions for styling single-case plots, adding phase-based lines to indicate various statistical parameters, and predefined themes for presentations and publications. More information and in depth examples can be found in the online book ``Analyzing Single-Case Data with R and 'scan'` by Jürgen Wilbert (2025) <<https://jazznbass.github.io/scan-Book/>>.

Depends R (>= 4.1.0)

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scplot-package	<i>Single-Case Data Plots</i>
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Description

A collection of procedures for visualizing single-case data. It is an add-on package for the scan package.

Author(s)

Juergen Wilbert [aut, cre]

add_arrow	<i>Add arrows to an scplot</i>
-----------	--------------------------------

Description

Add arrows to an scplot

Usage

```
add_arrow(
  object,
  case = 1,
  x0,
  y0,
  x1,
  y1,
  color = "black",
  angle = 30,
  length = unit(5, "points"),
  type = "open",
  ends = "last",
  linewidth = 0.7
)
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
case	Numerical vector with the case number or character string. <code>case = "all"</code> for all cases.
x0	Origin x position of the line.
y0	Origin y position of the line.
x1	End x position of the line.
y1	End y position of the line.
color	A character string or a number defining the color of an element.
angle	Angle (in [0,360])
length	Size of the arrow angels.
type	One of "open" or "closed" indicating whether the arrow head should be a closed triangle.
ends	One of "last", "first", or "both", indicating which ends of the line to draw arrow heads.
linewidth	A number with the width of the line.

Value

An object of class `scplot` (see `scplot()`) with added element lines.

Examples

```
data(exampleAB, package = "scan")
p1 <- scplot(exampleAB$Anja) |>
  add_arrow(case = 1, 2, 70, 6, 55, color = "darkred")
```

add_grid	<i>Add grid to an scplot</i>
----------	------------------------------

Description

Add grid to an scplot

Usage

```
add_grid(object, ...)
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
...	Line arguments (see element_line())

Value

An object of class scplot (see [scplot\(\)](#)).

See Also

[element_line\(\)](#)

Examples

```
data(exampleAB, package = "scan")
p1 <- scplot(exampleAB$Anja) |>
  set_theme("minimal") |>
  add_grid(color = "grey70")
```

add_labels	<i>Add value labels to an scplot</i>
------------	--------------------------------------

Description

Add value labels to an scplot

Usage

```
add_labels(  
  object,  
  nudge_y = 5,  
  nudge_x = 0,  
  round = NULL,  
  text = list(),  
  background = list(),  
  variable = ".dvar",  
  padding = NULL  
)
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
nudge_y	Offset on the y-axis.
nudge_x	Offset on the x-axis.
round	Number of digits of the labels.
text	List with text parameters ("family", "face", "colour", "size", "hjust", "vjust", "angle", "1". See element_text() .
background	A list with background styling arguments (fill, color, size, linetype).
variable	Name of the dataline variable to apply the style.
padding	Padding size around text.

Value

An object of class scplot (see [scplot\(\)](#)) with added/changed element labels.

add_legend	<i>Add a legend to an scplot</i>
------------	----------------------------------

Description

Add a legend to an scplot

Usage

```
add_legend(
  object,
  labels = NULL,
  section_labels = c("Lines", "Phases"),
  case = 1,
  position = "right",
  datalines = TRUE,
  statlines = TRUE,
  phases = TRUE,
  title = NULL,
  text = NULL,
  background = NULL
)
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
labels	A Character vector with text labels.
section_labels	A character vector of length two. The labels for the lines section and phase section.
case	Numerical vector with the case number or character string. <code>case = "all"</code> for all cases.
position	The position ("none", "left", "right", "bottom", "top", or two-element numeric vector)
datalines	If TRUE, a legend for the datalines is generated.
statlines	If TRUE, a legend for the statlines is generated.
phases	If TRUE, a legend for the phases is generated. Note that you also have to set the <code>set_panel</code> argument (e.g., <code>set_panel(fill = c("lightblue", "grey80"))</code>).
title	A list with text style parameters for the title.
text	List with text parameters ("family", "face", "colour", "size", "hjust", "vjust", "angle", "1. See element_text() .
background	A list with background styling arguments (fill, color, size, linetype).

Value

An object of class `scplot` (see [scplot\(\)](#)) with changed element legend.

Examples

```

data(exampleAB_add, package = "scan")
scplot(exampleAB_add) |>
  set_dataline("depression") |>
  add_statline("mean") |>
  add_legend()

scplot(exampleAB_add) |>
  set_dataline(label = "Psychological Wellbeing") |>
  set_dataline("depression", color = "darkblue", label = "Depression") |>
  add_statline("mean", label = "Wellbeing mean") |>
  add_statline("mean", variable = "depression", label = "Depression mean") |>
  set_phasesnames(color = NA) |>
  set_panel(fill = c("lightblue", "grey80")) |>
  add_legend(
    position = "left",
    section_labels = c("Variables", "Section"),
    title = list(color = "brown", size = 10, face = 2),
    text = list(color = "darkgreen", size = 10, face = 2),
    background = list(color = "lightgrey")
  )

```

add_line

*Add line to an scplot***Description**

Add line to an scplot

Usage

```

add_line(
  object,
  case = 1,
  x0 = NULL,
  y0 = NULL,
  x1 = NULL,
  y1 = NULL,
  hline = NULL,
  vline = NULL,
  color = "black",
  linewidth = 0.7,
  linetype = "solid"
)

```

Arguments

object An scplot object (class scplot) returned from the `scplot()` function.

case	Numerical vector with the case number or character string. case = "all" for all cases.
x0	Origin x position of the line.
y0	Origin y position of the line.
x1	End x position of the line.
y1	End y position of the line.
hline	y position of horizontal line.
vline	x position of vertical line.
color	A character string or a number defining the color of an element.
linewidth	A number with the width of the line.
linetype	A character string with the line type: "solid", "dashed", "dotted"

Value

An object of class `scplot` (see `scplot()`) with added element lines.

Examples

```
data(exampleAB, package = "scan")
p1 <- scplot(exampleAB$Anja) |>
  add_line(hline = 70, color = "darkred") |>
  add_line(vline = 3, color = "blue") |>
  add_line(x0 = 1, y0 = 70, x1 = 4, y1 = 80, color = "green")
```

add_marks	<i>Add marks to an scplot</i>
-----------	-------------------------------

Description

Add marks to an `scplot`

Usage

```
add_marks(
  object,
  case = 1,
  positions,
  color = "red",
  size = 1,
  shape = 1,
  variable = ".dvar"
)
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
case	Numerical vector with the case number or character string. <code>case = "all"</code> for all cases.
positions	Either a vector indicating the points to be highlighted or a character string with a logical expression (e.g. <code>values < mean(values)</code>)
color	A character string or a number defining the color of an element.
size	Text size relative to the base text size.
shape	Number. See <code>pch</code> graphical parameter on <code>par</code> help page par() .
variable	Name of the dataline variable to apply the style.

Details

If `positions` is an object returned from an outlier analysis `outlier()`, the corresponding outliers are marked.

Value

An object of class `scplot` (see [scplot\(\)](#)) with changed element marks.

Examples

```
library(scan)
p1 <- scplot(exampleA1B1A2B2$Moritz) |> add_marks(positions = c(1,5,10,14))
p1 <- scplot(Huber2014) |> add_marks(positions = outlier(Huber2014))
```

add_ridge	<i>Add a ridge to an scplot</i>
-----------	---------------------------------

Description

Add a ridge to an `scplot`

Usage

```
add_ridge(object, color = "grey98", variable = ".dvar")
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
color	A character string or a number defining the color of an element.
variable	Name of the dataline variable to apply the style.

Value

An object of class `scplot` (see [scplot\(\)](#)) with changed element ridges.

add_statline	<i>Add a statline to an scplot</i>
--------------	------------------------------------

Description

Add a statline to an scplot

Usage

```
add_statline(
  object,
  stat = c("mean", "median", "min", "max", "quantile", "sd", "mad", "trend", "trendA",
    "trendA theil-sen", "trendA bisplit", "trendA trisplit", "moving mean",
    "moving median", "loreg", "lowess", "loess"),
  phase = NULL,
  color = NULL,
  linewidth = NULL,
  linetype = NULL,
  variable = NULL,
  label = NULL,
  ...
)
```

Arguments

object	An scplot object (class scplot) returned from the scplot() function.
stat	A character string for defining a statistical line or curve to be plotted.
phase	Either a numeric or a character vector specifying the reference phase (see details).
color	A character string or a number defining the color of an element.
linewidth	A number with the width of the line.
linetype	A character string with the line type: "solid", "dashed", "dotted"
variable	Name of the dataline variable to apply the style.
label	A character string which is used to set the label in a legend.
...	additional parameters passed to the statistical function.

Details

The phase argument defines the reference phase for some statistical functions ("median", "mean", "min", "max", "quantile", "trend", "trendA", "trendA theil-sen", "trendA bisplit", "trendA trisplit", "moving mean", "moving median", "loreg", "lowess", "loess"). The default is NULL which calculates and plots statistics for each phase separately. The arguments takes a numeric vector (phase number(s)) or a character vector (phase name(s)). When more than one phase is defines, statistics are based on the combined values of these phases. Various methods for an extrapolated *trendA* line exist: "trendA" is based on an OLS regression, "trendA theil-sen" on a nonparametric regression, and "trendA bisplit" / "trendA trisplit" are two median based approaches. Some of the functions defined in stats have additional arguments. The

`mean()` function has a `trim` argument (e.g. `trim = 0.1`). `quantile()` has a `proportion` argument (e.g. `prob = 0.75` for calculating the 75% quantile). `moving mean` and `moving median` have a `lag` argument (e.g. `lag = 2`). The local-regression curve function "lowess" (or "loreg") has a `proportion` argument (e.g. `f = 0.5`; see `lowess()`) and the local-regression curve function "loess" has a `span` argument (e.g. `span = 0.75`; see `loess()`).

Value

An object of class `scplot` (see `scplot()`) with changed element `statlines`.

add_text	<i>Add test to an scplot</i>
----------	------------------------------

Description

Add test to an `scplot`

Usage

```
add_text(
  object,
  label,
  case = 1,
  x,
  y,
  color = "black",
  size = 1,
  angle = 0,
  hjust = 0.5,
  vjust = 0.5,
  face = 1
)
```

Arguments

<code>object</code>	An <code>scplot</code> object (class <code>scplot</code>) returned from the <code>scplot()</code> function.
<code>label</code>	A Character vector with text labels.
<code>case</code>	Numerical vector with the case number or character string. <code>case = "all"</code> for all cases.
<code>x</code>	x position
<code>y</code>	y position
<code>color</code>	A character string or a number defining the color of an element.
<code>size</code>	Text size relative to the base text size.
<code>angle</code>	Angle (in [0,360])
<code>hjust</code>	Horizontal justification (in [0,1])
<code>vjust</code>	Vertical justification (in [0,1])
<code>face</code>	Font face ("plain", "italic", "bold", "bold.italic")

Value

An object of class `scplot` (see `scplot()`) with a changed `texts` element.

<code>add_title</code>	<i>Add title and caption to an <code>scplot</code></i>
------------------------	--

Description

Add title and caption to an `scplot`

Usage

```
add_title(object, label, ...)

add_caption(object, label, header = "Note:\n", ...)
```

Arguments

<code>object</code>	An <code>scplot</code> object (class <code>scplot</code>) returned from the <code>scplot()</code> function.
<code>label</code>	A Character vector with text labels.
<code>...</code>	List with text parameters (" <code>family</code> ", " <code>face</code> ", " <code>colour</code> ", " <code>size</code> ", " <code>hjust</code> ", " <code>vjust</code> ", " <code>angle</code> ", "1". See <code>element_text()</code> .
<code>header</code>	String with header above footnote/ caption

Value

An object of class `scplot` (see `scplot()`) with changed `title` and `caption` elements.

<code>as_ggplot</code>	<i>Creates a <code>ggplot2</code> object from an <code>scplot()</code> object</i>
------------------------	---

Description

Creates a `ggplot2` object from an `scplot()` object

Usage

```
as_ggplot(scplot)
```

Arguments

<code>scplot</code>	An <code>scplot</code> object
---------------------	-------------------------------

Details

`as_ggplot()` is used when you want to return a `ggplot2` object for further use with external `ggplot` functions.

Value

A `ggplot2` plot object.

element_point	<i>Point element</i>
---------------	----------------------

Description

In conjunction with `ggplot` an object to represent point attributes.

Usage

```
element_point(colour = NULL, size = NULL, shape = NULL, color = NULL)
```

Arguments

size	Relative size.
shape	Point shape.
color, colour	Point colour.

Value

An object of class `c("element_point", "element")`.

new_theme	<i>Create a new scplot theme</i>
-----------	----------------------------------

Description

Create a new `scplot` theme

Usage

```
new_theme()

extract_theme(object)
```

Arguments

object	An <code>scplot</code> object (class <code>scplot</code>) returned from the <code>scplot()</code> function.
--------	--

Value

An scplot-theme object

An object of class `scplot-theme` which can be used with the `set_theme()` function.

Examples

```
data(exampleABC, package = "scan")
my_theme <- new_theme() |>
  set_panel(color = "red") |>
  set_base_text(size = 12, color = "blue") |>
  set_dataline(color = "darkred", linewidth = 2)
p1 <- scplot(exampleABC) |> set_theme(my_theme)
```

scplot.scdf	<i>Plot single-case data</i>
-------------	------------------------------

Description

This function provides a plot of a single-case or multiple single-cases.

Usage

```
## S3 method for class 'scdf'
scplot(object, ...)
```

Arguments

<code>object</code>	A single-case data-frame object (scdf).
<code>...</code>	further arguments.

Value

An object of class `scplot` containing the single-case data (element `scdf`), and information about the plot style (element `theme`).

Author(s)

Juergen Wilbert

scplot.sc_hplm	<i>This function generates a forest plot for the random effects of a mixed hplm model</i>
----------------	---

Description

This function generates a forest plot for the random effects of a mixed hplm model

Usage

```
## S3 method for class 'sc_hplm'
scplot(object, effect = "intercept", mark = "fixed", ci = 0.95, ...)
```

Arguments

object	The return from the hplm() function.
effect	The specific effect to be plotted (default is the intercept).
mark	Set a reference line.
ci	Value between 0 and 1 for calculating the confidence interval.
...	Further arguments.

Value

A forest plot displaying Tau-U effects.

Examples

```
model <- scan::hplm(scan::Leidig2018, random.slopes = TRUE)
scplot(model, effect = "level")
```

scplot.sc_rand	<i>Plot Randomization Effects</i>
----------------	-----------------------------------

Description

This function generates a forest plot of Tau-U effects.

Usage

```
## S3 method for class 'sc_rand'
scplot(object, type = "hist", add_density_curve = TRUE, ...)
```

Arguments

object	The return from the tau_u() function.
type	Either "hist" or "xy".
add_density_curve	If TRUE, adds a density curve to the histogram.
...	Further arguments.

Value

A forest plot displaying Tau-U effects.

Examples

```
## Not run:
res <- scan::rand_test(scan::exampleAB$Anja, limit = 1)
scplot(res, type = "hist")

scplot(res, type = "xy")

## End(Not run)
```

scplot.sc_tauu

Plot Tau-U Effects

Description

This function generates a forest plot of Tau-U effects.

Usage

```
## S3 method for class 'sc_tauu'
scplot(object, effect = 1, ...)
```

Arguments

object	The return from the tau_u() function.
effect	The specific effect to be plotted (default is "A vs. B - Trend A").
...	Further arguments.

Value

A forest plot displaying Tau-U effects.

Examples

```
res <- scan::tau_u(scan::Leidig2018)
scplot(res, effect = 3)
```

scplot_rand	<i>Random start position plot Plot of statistics for random phase B start positions</i>
-------------	---

Description

Random start position plot Plot of statistics for random phase B start positions

Usage

```
scplot_rand(  
  scdf,  
  statistic = "Mean B-A",  
  x_label = "Start phase B",  
  color_label = "Compared to\nobserved",  
  colors = c(Above = "coral3", Below = "aquamarine4", Observed = "#56B4E9", Equal =  
    "black"),  
  ...  
)
```

Arguments

- scdf A single-case data frame object.
- statistic A string with a the name of a statistic. Defaults to Mean B-A. See rand_test() function for all options.
- x_label Character string with the x label.
- color_label Character string with the color label.
- colors Named vector with color codes.
- ... further arguments passted to the scan rand_test() function.

Examples

```
scplot_rand(scan::byHeart2011[1:5])
```

set_background	<i>Set plot and panel background of an scplot</i>
----------------	---

Description

Set plot and panel background of an scplot

Usage

```
set_background(object, ...)  
  
set_panel(object, ...)
```

Arguments

- object An scplot object (class scplot) returned from the `scplot()` function.
- ... List with rectangle parameters ("fill", "colour", "linewidth", "linetype"). See `element_rect()`.

Value

An object of class `scplot` (see `scplot()`).

Examples

```
data(exampleAB, package = "scan")  
p1 <- scplot(exampleAB) |>  
  set_background(fill = "lightblue", colour = "darkblue", linewidth = 1.5) |>  
  set_panel(fill = "deepskyblue", color = "darkblue", linewidth = 0.3)
```

set_base_text	<i>Set base text parameters of an scplot</i>
---------------	--

Description

Set base text parameters of an `scplot`

Usage

```
set_base_text(object, ...)
```

Arguments

- object An scplot object (class scplot) returned from the `scplot()` function.
- ... List with text parameters ("family", "face", "colour", "size", "hjust", "vjust", "angle", "l..."). See `element_text()`.

Value

An object of class `scplot` (see `scplot()`).

set_casenames	<i>Set casenames of an scplot</i>
---------------	-----------------------------------

Description

Set casenames of an scplot

Usage

```
set_casenames(object, labels = NULL, position = NULL, background = list(), ...)
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
labels	A Character vector with text labels.
position	Either "topleft", "bottomleft", "topright", "bottomright", "strip-right", "strip-top", or a numerical vector of length 2 with the x and y position (e.g. <code>c(19, 20)</code>).
background	A list with background styling arguments (fill, color, size, linetype).
...	List with text parameters ("family", "face", "colour", "size", "hjust", "vjust", "angle", "1". See element_text() .

Value

An object of class scplot (see [scplot\(\)](#)) with a changed casenames element.

set_dataline	<i>Set data lines of an scplot</i>
--------------	------------------------------------

Description

Either set aesthetics of the default data line or add another data line.

Usage

```
set_dataline(
  object,
  variable = NULL,
  line,
  point,
  type = "continuous",
  label = NULL,
  ...
)

add_dataline(...)
```

Arguments

object	An scplot object (class scplot) returned from the scplot() function.
variable	String. The name of a new variable for adding a new line. If left empty, the aesthetics of the default data line are changed.
line	List with line parameters ("colour", "linewidth", "linetype", "lineend", "arrow"). See element_line() .
point	A list with point parameters ("colour", "size", "shape"). See element_point() .
type	Either "continuous" or "discrete"
label	A character string which is used to set the label in a legend.
...	As a shortcut, arguments passed hear are bundled as line arguments (see element_line()).

Value

An object of class scplot (see [scplot\(\)](#)) with a changed datalines element.

See Also

[element_line\(\)](#), [element_point\(\)](#)

Examples

```
data(exampleAB_add, package = "scan")
scplot(exampleAB_add) |>
  set_dataline("depression", color = "darkblue")
```

set_phasenames	<i>Set phasenames of an scplot</i>
----------------	------------------------------------

Description

Set phasenames of an scplot

Usage

```
set_phasenames(object, labels = NULL, position = NULL, ...)
```

Arguments

object	An scplot object (class scplot) returned from the scplot() function.
labels	A Character vector with text labels.
position	Character string either 'left', 'center', or 'none'.
...	List with text parameters ("family", "face", "colour", "size", "hjust", "vjust", "angle", "l..."). See element_text() .

Value

An object of class scplot (see [scplot\(\)](#)) with a changed phasenames element.

set_separator	<i>Set separator line in an scplot</i>
---------------	--

Description

Set separator line in an scplot

Usage

```
set_separator(object, ...)
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
...	List with line parameters ("colour", "linewidth", "linetype").

Value

An object of class scplot (see [scplot\(\)](#)).

set_theme	<i>Add a theme of to an scplot</i>
-----------	------------------------------------

Description

Possible themes are: 'basic', 'grid', 'default', 'small', 'tiny', 'big', 'minimal', 'dark', 'sienna', 'phas

Usage

```
set_theme(object, theme, ...)
```

```
add_theme(...)
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
theme	A character string with a predefined graphical theme or a theme object created with new_theme() .
...	Further character strings or scplot-theme objects that are "added" on top.

Value

An object of class scplot (see [scplot\(\)](#)) with a changed theme element.

set_theme_element	<i>Set a theme element</i>
-------------------	----------------------------

Description

Set a theme element

Usage

```
set_theme_element(object, ...)
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
...	various style parameter

Details

Usually, you don't need this function. Possible theme elements are: "text", "plot.background", "panel.background", "panel.spacing.y", "dataline", "datapoint", "statline", "axis.expand.x", "axis.expand.y", "axis.line.x", "axis.line.y", "axis.ticks.length", "axis.ticks", "axis.title.y", "axis.title.x", "axis.text.x", "axis.text.y", "plot.title", "plot.caption", "plot.margin", "casenames", "casenames.strip", "casenames.background", "casenames.position", "phasenames", "phasenames.position.x", "separators", "separators.extent", "label.text", "label.background", "label.padding", "grid", "legend.position", "legend.background", "legend.text", "legend.title", "legend.margin".

The elements are of the following classes:

- text = c("element_text", "element"),
- plot.background = c("element_rect", "element"),
- panel.spacing.y = c("simpleUnit", "unit", "unit_v2"),
- dataline = "list",
- datapoint = "list",
- statline = c("element_line", "element"),
- axis.expand.x = "numeric",
- axis.expand.y = "numeric",
- axis.line.x = c("element_line", "element"),
- axis.line.y = c("element_line", "element"),
- axis.ticks.length = c("simpleUnit", "unit", "unit_v2"),
- axis.ticks = c("element_line", "element"),
- axis.title.y = c("element_text", "element"),
- axis.title.x = c("element_text", "element"),
- axis.text.x = c("element_text", "element"),

- axis.text.y = c("element_text", "element"),
- plot.title = c("element_text", "element"),
- plot.caption = c("element_text", "element"),
- plot.margin = c("margin", "simpleUnit", "unit", "unit_v2"),
- casenames = c("element_text", "element"),
- casenames.strip = c("element_rect", "element"),
- casenames.background = c("element_rect", "element"),
- casenames.position = "character",
- phasenames = c("element_text", "element"),
- phasenames.position.x = "character",
- separators = c("element_line", "element"),
- separators.extent = "character",
- label.text = c("element_text", "element"),
- label.background = c("element_rect", "element"),
- label.padding = "numeric", grid = c("element_line", "element"),
- legend.position = "character",
- legend.background = c("element_rect", "element"),
- legend.text = c("element_text", "element"),
- legend.title = c("element_text", "element"),
- legend.margin = c("margin", "simpleUnit", "unit", "unit_v2")

Value

An object of class `scplot` (see [scplot\(\)](#)) with a changed theme element.

Examples

```
data(exampleABC, package = "scan")
p1 <- scplot(exampleABC) |>
  set_theme_element(
    axis.ticks.length = unit(0, "points"),
    axis.line.y = element_line(color = "darkred", linewidth = 2),
    panel.background = element_rect(color = "darkblue", linewidth = 1),
    panel.spacing.y = unit(0, "points"),
    phasenames = element_text(color = "#00000000")
  )
```

set_axis

*Set axis parameters of an scplot***Description**

Set axis parameters of an scplot

Usage

```
set_axis(
  object,
  limits = NULL,
  increment = NULL,
  increment_from = NULL,
  line = NULL,
  expand = NULL,
  ...
)

set_yaxis(
  object,
  limits = NULL,
  increment = NULL,
  increment_from = NULL,
  line = NULL,
  expand = NULL,
  ...
)
```

Arguments

object	An scplot object (class scplot) returned from the <code>scplot()</code> function.
limits	Lower and upper limits of the axis (e.g., <code>limits = c(0, 20)</code> sets the axis to a scale from 0 to 20). With multiple single-cases you can use <code>limits = c(0, NA)</code> to scale the axis from 0 to the maximum of each case. <code>limits</code> is not set by default, which makes <code>scplot</code> set a proper scale based on the given data.
increment	An integer. Increment of the x-axis. 1 :each mt value will be printed, 2 : every other value, 3 : every third values etc.
increment_from	Number from which increment starts to count. Usually set to 0 if you want marks like 1,5,10,15,...
line	List with line parameters ("colour", "linewidth", "linetype", "lineend", "arrow"). See element_line() .
expand	Vector with two values.
...	Further styling arguments: color, size, face, family, hjust, vjust, lineheight, angle, linetype, lineend, arrow, fill, margin.

Value

An object of class `scplot` (see `scplot()`) with changed `xaxis` and `yaxis` elements.

set_xlabel	<i>Set label for axis</i>
------------	---------------------------

Description

Set label for axis

Usage

```
set_xlabel(object, label = NULL, ...)
```

```
set_ylabel(object, label = NULL, ...)
```

Arguments

<code>object</code>	An <code>scplot</code> object (class <code>scplot</code>) returned from the <code>scplot()</code> function.
<code>label</code>	A Character vector with text labels.
<code>...</code>	Further styling arguments: <code>color</code> , <code>size</code> , <code>face</code> , <code>family</code> , <code>hjust</code> , <code>vjust</code> , <code>lineheight</code> , <code>angle</code> , <code>linetype</code> , <code>lineend</code> , <code>arrow</code> , <code>fill</code> , <code>margin</code> .

Value

An object of class `scplot` (see `scplot()`) with a changed `xlabel` or `ylabel` element.

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