

Package ‘gghighlight’

October 15, 2022

Type Package

Title Highlight Lines and Points in 'ggplot2'

Version 0.4.0

Description Make it easier to explore data with highlights.

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URL <https://yutannihilation.github.io/gghighlight/>, <https://github.com/yutannihilation/gghighlight/>

BugReports <https://github.com/yutannihilation/gghighlight/issues>

Depends ggplot2 (>= 3.3.6),
R (>= 3.4.0)

Imports dplyr (>= 1.0.4),
ggrepel,
lifecycle,
purrr,
rlang,
tibble

Suggests geomtextpath,
knitr,
rmarkdown,
sf,
testthat,
vdiff (>= 0.3.0)

VignetteBuilder knitr

RdMacros lifecycle

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.1

Config/testthat/edition 3

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gghighlight-package	<i>Highlight Lines and Points in 'ggplot2'</i>
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Description

Make it easier to explore data with highlights.

gghighlight	<i>Highlight Data With Predicate</i>
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Description

[Maturing]

`gghighlight()` highlights (almost) any geoms according to the given predicates.

Usage

```
gghighlight(
  ...,
  n = NULL,
  max_highlight = 5L,
  unhighlighted_params = list(),
  use_group_by = NULL,
  use_direct_label = NULL,
  label_key = NULL,
  label_params = list(fill = "white"),
  keep_scales = FALSE,
  calculate_per_facet = FALSE,
  line_label_type = c("ggrepel_label", "ggrepel_text", "text_path", "label_path",
    "sec_axis"),
  unhighlighted_colour = NULL
)
```

Arguments

<code>...</code>	Expressions to filter data, which is passed to <code>dplyr::filter()</code> .
<code>n</code>	Number of layers to clone.
<code>max_highlight</code>	Max number of series to highlight.
<code>unhighlighted_params</code>	Aesthetics (e.g. colour, fill, and size) for unhighlighted geoms. Specifying colour = NULL or fill = NULL will preserve the original colour.
<code>use_group_by</code>	If TRUE, use <code>dplyr::group_by()</code> to evaluate predicate.
<code>use_direct_label</code>	If TRUE, add labels directly on the plot instead of using a legend.
<code>label_key</code>	Column name for label aesthetics.
<code>label_params</code>	A list of parameters, which is passed to <code>ggrepel::geom_label_repel()</code> .

`keep_scales` If TRUE, keep the original data with `ggplot2::geom_blank()` so that the highlighted plot has the same scale with the data.

`calculate_per_facet` (Experimental) If TRUE, include the facet variables to calculate the grouping; in other words, highlighting is done on each facet individually.

`line_label_type` (Experimental) Method to add labels (or texts) on the highlighted lines.

"ggrepel_label" Use `ggrepel::geom_label_repel()`.

"ggrepel_text" Use `ggrepel::geom_text_repel()`.

"text_path" Use `geomtextpath::geom_textline()` for lines and `geomtextpath::geom_textpath()` for paths.

"label_path" Use `geomtextpath::geom_labelline()` for lines and `geomtextpath::geom_labelpath()` for paths.

"sec_axis" Use secondary axis. Please refer to [Simon Jackson's blog post](#) for the trick.

`unhighlighted_colour` (Deprecated) Colour for unhighlighted geoms.

Examples

```
d <- data.frame(
  idx = c(1, 1, 1, 2, 2, 2, 3, 3, 3),
  value = c(1, 2, 3, 10, 11, 12, 9, 10, 11),
  category = rep(c("a", "b", "c"), 3),
  stringsAsFactors = FALSE
)

# Highlight the lines whose max values are larger than 10
ggplot(d, aes(idx, value, colour = category)) +
  geom_line() + gghighlight(max(value) > 10)

# Highlight the points whose values are larger than 10
ggplot(d, aes(idx, value)) +
  geom_point() +
  gghighlight(value > 10, label_key = category)

# Specify the styles for unhighlighted layer
ggplot(d, aes(idx, value, colour = category)) +
  geom_line(linewidth = 5) +
  gghighlight(max(value) > 10,
    unhighlighted_params = list(linewidth = 1)
  )
```

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