

Package ‘gghighlight’

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Type Package

Title Highlight Lines and Points in ‘ggplot2’

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Description Make it easier to explore data with highlights.

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Depends R (>= 3.1.0)

Imports ggplot2 (>= 2.2.0), dplyr (> 0.7.0), ggrepel, magrittr, purrr,
rlang

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Suggests testthat

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gghighlight-package *Highlight Lines and Points in ‘ggplot2’*

Description

Make it easier to explore data with highlights.

gghighlight

*Highlight Data With Predicate***Description**

`gghighlight_line()` highlights lines (`ggplot2::geom_line()`) and `gghighlight_points()` highlights points (`ggplot2::geom_point()`) according to the given predicates.

Usage

```
gghighlight_line(data, mapping, predicate, max_highlight = 5L,
  unhighlighted_colour = ggplot2::alpha("grey", 0.7), use_group_by = TRUE,
  use_direct_label = TRUE, label_key = NULL, ...,
  environment = parent.frame())
```

```
gghighlight_point(data, mapping, predicate, max_highlight = 5L,
  unhighlighted_colour = ggplot2::alpha("grey", 0.7), use_group_by = FALSE,
  use_direct_label = TRUE, label_key = NULL, ...,
  environment = parent.frame())
```

Arguments

<code>data</code>	Default dataset to use for plot. If not already a data.frame, will be converted to one by <code>fortify()</code> . If not specified, must be supplied in each layer added to the plot.
<code>mapping</code>	Default list of aesthetic mappings to use for plot. If not specified, must be supplied in each layer added to the plot.
<code>predicate</code>	Expression to filter data, which is passed to <code>dplyr::filter()</code> .
<code>max_highlight</code>	Max number of series to highlight.
<code>unhighlighted_colour</code>	Colour for unhighlighted lines/points.
<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>...</code>	Arguments passed to the corresponding geometry functions (e.g. <code>geom_line()</code>).
<code>environment</code>	If a variable defined in the aesthetic mapping is not found in the data, ggplot will look for it in this environment. It defaults to using the environment in which <code>ggplot()</code> is called.

Details

`gghighlight_lines()` evaluates predicate by grouped calculation; You must specify the expression that returns one value per group. Aggregate functions (e.g. `max()`, `all()`) are usually needed.

`gghighlight_points()` evaluates predicate by ungrouped calculation; You must specify the expression that returns one value per row.

`gghighlight_*` behaves differently, depending on what type of vector the result of the predicate is.

- If predicate is evaluated into a logical vector, the data series/points filtered by the logical vector will be highlighted.
- Otherwise, the data series/points are sorted by the result of predicate and the top `max_highlight` ones will be highlighted.

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
)
```

```
gghighlight_line(d, aes(idx, value, colour = category), max(value) > 10)
```

```
## Not run:
```

```
# This throws an error because the predicate returns multiple values per group.
gghighlight_line(d, aes(idx, value, colour = category), value > 10)
```

```
## End(Not run)
```

```
gghighlight_point(d, aes(idx, value), value > 10, label_key = category)
```

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