Package ‘ggeasy’

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Title Easy Access to ‘ggplot2’ Commands
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easy_add_legend_title

Easily add legend title(s)

Description

Update the title(s) of the specified aesthetic, or all aesthetics at once.

Usage

easy_add_legend_title(..., teach = FALSE)

Arguments

... A list of new name-value pairs. The name should be an aesthetic. If only a
character value is provided then all legend titles will be changed to that.

teach print longer equivalent ggplot2 expression?

Value

a theme object

Author(s)

Jonathan Carroll

Examples

library(ggplot2)

# Add legend title to a specific aesthetic
ggplot(mtcars, aes(wt, mpg, colour = cyl, size = hp)) +
geom_point() + easy_add_legend_title(col = "Number of Cylinders")

# Add legend title to all aesthetics
ggplot(mtcars, aes(wt, mpg, colour = cyl)) +
geom_point() + easy_add_legend_title("Number of Cylinders")
easy_change_legend

Easily modify legends

Description

Change legend position, direction, or justification.

Usage

easy_change_legend(
  what = c("position", "direction", "justification"),
  to,
  teach = FALSE
)
easy_move_legend(
  to = c("right", "none", "left", "bottom", "top"),
  teach = FALSE
)
easy_legend_at(to = c("right", "none", "left", "bottom", "top"), teach = FALSE)
easy_rotate_legend(to = c("vertical", "horizontal"), teach = FALSE)
easy_adjust_legend(to = c("left", "right", "center"), teach = FALSE)

Arguments

what    legend component to modify ("position", "direction", or "justification")
to      to what to set the legend component should be changed
teach   print longer equivalent ggplot2 expression?

Details

Due to limitations of ggplot2 this will apply to all legends at once

Value

a theme object

Author(s)

Jonathan Carroll
Examples

```r
library(ggplot2)

# Move legends to bottom
ggplot(mtcars, aes(wt, mpg, colour = cyl, size = hp)) +
  geom_point() + easy_move_legend("bottom")

# Make legends horizontal
ggplot(mtcars, aes(wt, mpg, colour = cyl, size = hp)) +
  geom_point() + easy_rotate_legend("horizontal")

# Justify legends to the bottom and justify to the right
ggplot(mtcars, aes(wt, mpg, colour = cyl, size = hp)) +
  geom_point() +
  easy_move_legend("bottom") +
  easy_adjust_legend("right")
```

---

easy_change_text  
_Easily change text appearance_

Description

Change any of the text parameters such as

Usage

```r
easy_change_text(
  which = .all_theme_els,
  what = .all_element_text,
  to = NULL,
  teach = FALSE
)
```

.all_theme_els  
.all_element_text

easy_all_text_size(size = NULL, teach = FALSE)
easy_all_text_color(color = NULL, teach = FALSE)
easy_all_text_colour(colour = NULL, teach = FALSE)
easy_text_size(which = .all_theme_els, size = NULL, teach = FALSE)
easy_text_color(which = .all_theme_els, color = NULL, teach = FALSE)
```
easy_change_text

    easy_text_colour(which = .all_theme_els, colour = NULL, teach = FALSE)
    easy_x_axis_title_size(size, teach = FALSE)
    easy_y_axis_title_size(size, teach = FALSE)
    easy_x_axis_labels_size(size = NULL, teach = FALSE)
    easy_y_axis_labels_size(size = NULL, teach = FALSE)
    easy_plot_title_size(size = NULL, teach = FALSE)
    easy_plot_subtitle_size(size = NULL, teach = FALSE)
    easy_plot_caption_size(size = NULL, teach = FALSE)
    easy_plot_legend_size(size = NULL, teach = FALSE)
    easy_plot_legend_title_size(size = NULL, teach = FALSE)
    easy_center_title(teach = FALSE)

Arguments

    which       which element to change (see ggeasy::all_theme_els)
    what        what attribute of the element to change (see ggeasy::all_element_text)
    to          value to which the attribute should be set
    teach       print longer equivalent ggplot2 expression?
    size        size to set attributes to
    color       colo(u)r to set attributes to
    colour      colo(u)r to set attributes to

Format

    An object of class character of length 15.

Value

    a theme object which can be used in ggplot2 calls

Author(s)

    Jonathan Carroll
Examples

library(ggplot2)

# make all text larger
ggplot(mtcars, aes(mpg, hp)) +
  geom_point() +
  easy_all_text_size(22)
# also works if accidentally using easy_text_size(n)

# make the x and y axis text larger
ggplot(mtcars, aes(mpg, hp)) +
  geom_point() +
  easy_text_size(c("axis.text.x", "axis.text.y"), 22)

# make the x axis labels larger
ggplot(mtcars, aes(mpg, hp)) +
  geom_point() +
  easy_x_axis_labels_size(22)

# make the plot title larger
ggplot(mtcars, aes(mpg, hp)) +
  geom_point() +
  labs(title = "My Plot") +
  easy_plot_title_size(22)

# make the legend title larger
ggplot(mtcars, aes(mpg, hp)) +
  geom_point(aes(fill = gear)) +
  easy_plot_legend_title_size(22)

# make all the text red
ggplot(mtcars, aes(mpg, hp)) +
  geom_point(aes(fill = gear)) +
  easy_all_text_color("red")

# make all the text 45 degrees, right-justified
ggplot(mtcars, aes(mpg, hp)) +
  geom_point(aes(fill = gear)) +
  easy_change_text(what = "angle", to = 45) +
  easy_change_text(what = "hjust", to = 1)

# make just x-axis text 45 degrees, right-justified
ggplot(mtcars, aes(mpg, hp)) +
  geom_point(aes(fill = gear)) +
  easy_change_text(which = "axis.text.x", what = "angle", to = 45) +
  easy_change_text(which = "axis.text.x", what = "hjust", to = 1)

---

easy_labs

Easily add ggplot labels using label attribute of ‘data.frame’ column
**easy_remove_axes**

**Description**

Applies same logic as labs but uses as default the column label attribute if present as the variable label in the plot.

**Usage**

easy_remove_axes(..., teach = FALSE)

**Arguments**

... A list of new name-value pairs. The name should either be an aesthetic, or one of "title", "subtitle", or "caption"

teach print longer equivalent ggplot2 expression?

**Examples**

iris_labs <- iris

lbl <- c('Sepal Length', 'Sepal Width', 'Petal Length', 'Petal Width', 'Flower Species')

labelled::var_label(iris_labs) <- split(lbl,names(iris_labs))

p <- ggplot2::ggplot(iris_labs,ggplot2::aes(x=Sepal.Length,y=Sepal.Width))+
  ggplot2::geom_line(ggplot2::aes(colour=Species))

p

p + easy_labs()

p + easy_labs(title = "Plot Title", subtitle = "Plot Subtitle", x = 'x axis label')

p + easy_labs(teach = TRUE)

describe(lb)

describe(lb, what = 'text')

describe(lb, what = 'text', teach = TRUE)
easy_remove_axes

)  
easy_remove_y_axis(what = c("ticks", "title", "text", "line"), teach = FALSE)  
easy_remove_x_axis(what = c("ticks", "title", "text", "line"), teach = FALSE)

Arguments

which  which axis or axes to remove, by default "both"
what  axis components to remove ("ticks", "title", "text", and/or "line")
teach  print longer equivalent ggplot2 expression?

Details

easy_remove_x_axis and easy_remove_y_axis remove just the x or y axis, respectively.

Value

a theme object which can be used in ggplot2 calls

Author(s)

Alicia Schep

Examples

library(ggplot2)
# Remove all axes
ggplot(mtcars, aes(wt, mpg)) +
  geom_point() + easy_remove_axes()

# remove just x axis
ggplot(mtcars, aes(wt, mpg)) +
  geom_point() + easy_remove_x_axis()

# can also use:
  ggplot(mtcars, aes(wt, mpg)) +
  geom_point() + easy_remove_axes("x")

# Remove y axis
    ggplot(mtcars, aes(wt, mpg)) +
  geom_point() + easy_remove_y_axis()

# Remove just the ticks
# Remove y axis
  ggplot(mtcars, aes(wt, mpg)) +
  geom_point() + easy_remove_y_axis(what = "ticks")
**easy_remove_legend**  

Easily remove legend(s)

**Description**

With no argument, will remove all legends. Provide the name(s) of specific aesthetic to remove only certain legends.

**Usage**

```r
easy_remove_legend(..., teach = FALSE)
```

**Arguments**

- `...`: optional name(s) specific aesthetics for which to remove the legend
- `teach`: print longer equivalent `ggplot2` expression?

**Value**

either a `theme` object or a `guides` object, both of which can be used in `ggplot2` calls

**Author(s)**

Alicia Schep

**Examples**

```r
library(ggplot2)

# Remove all legends
ggplot(mtcars, aes(wt, mpg, colour = cyl, size = hp)) +
   geom_point() + easy_remove_legend()

# remove just size legend
ggplot(mtcars, aes(wt, mpg, colour = cyl, size = hp)) +
   geom_point() + easy_remove_legend("size")

# can also use:
ggplot(mtcars, aes(wt, mpg, colour = cyl, size = hp)) +
   geom_point() + easy_remove_legend(size)

# Remove more than one
ggplot(mtcars, aes(wt, mpg, colour = cyl, size = hp)) +
   geom_point() + easy_remove_legend(size, color)
```
easy_remove_legend_title

Easily remove legend title Remove the legend title

Description
Easily remove legend title Remove the legend title

Usage
easy_remove_legend_title(teach = FALSE)

Arguments
teach print longer equivalent ggplot2 expression?

Value
a theme object

Examples
library(ggplot2)
# remove legend title from all aesthetics
ggplot(mtcars, aes(wt, mpg, colour = cyl)) +
  geom_point() + easy_remove_legend_title()

easy_rotate_labels

Easily rotate x axis labels

Description
A shortcut to

Usage
easy_rotate_labels(
  which = c("both", "x", "y"),
  angle = 90,
  side = c("left", "middle", "right"),
  teach = FALSE
)

easy_rotate_x_labels(
  angle = 90,
  side = c("left", "middle", "right"),


teach = FALSE
)

easy_rotate_y_labels(
  angle = 90,
  side = c("left", "middle", "right"),
  teach = FALSE
)

Arguments

which which axis or axes to rotate, by default "both"
angle angle through which the text should be rotated. Can also be one of "startattop" or "startatbottom" to define where the text should start.
side horizontal justification of the text before rotation
teach print longer equivalent ggplot2 expression?

Details

theme(axis.text.x = element_text(angle, hjust))

Value

a theme object which can be used in ggplot2 calls.

Examples

library(ggplot2)
ggplot(mtcars, aes(mpg, hp)) + geom_point() +
  easy_rotate_labels()

Description

Helper functions for making using ggplot2 easier.
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