tidyplots cheatsheet

version 0.2.1

@jbengler

Workflow

dataset → tidyplot → add → remove → adjust → theme → save_plot

theme → split_plot → save_plot

Dataset

Variables

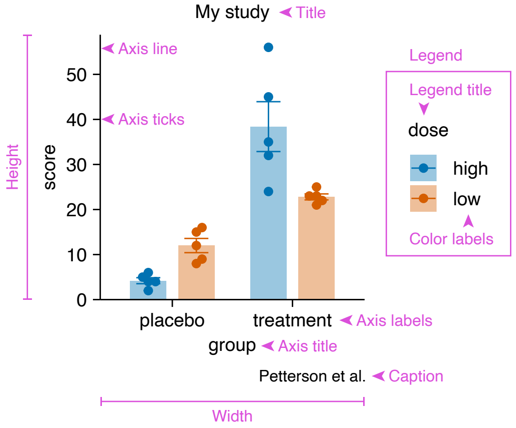
Observations

treatment `<chr>`	group `<chr>`	dose `<chr>`	age `<dbl>`	sex `<chr>`	score `<dbl>`
A	placebo	high	23	female	2
A	placebo	high	45	male	4
B	placebo	low	23	female	9
B	placebo	low	45	male	8
C	treatment	high	23	female	32
C	treatment	high	45	male	35
D	treatment	low	23	female	23
D	treatment	low	45	male	25
...	...	...	...	...	...

Code

```
study |>
  tidyplot( x = group, y = score, color = dose ) |>
  add_mean_bar(alpha = 0.4) |>
  add_sem_errorbar() |>
  add_data_points_beeswarm() |>
  add_title("My study") |>
  add_caption("Petterson et al.")
```

Plot



Links

website docs help use-cases

Add

Raw data

link

`add_data_`

`points()`
`labels()`

Example:
`add_data_points()`

Summary statistics

link

`add_count_`
`add_sum_`
`add_mean_`
`add_median_`

`bar()`
`dash()`
`dot()`
`value()`
`line()`
`area()`

Examples:
`add_count_bar()`
`add_sum_line()`
`add_mean_value()`

Dispersion

link

`add_sem_`
`add_sd_`
`add_range_`
`add_ci95_`

`errorbar()`
`ribbon()`

Example:
`add_sem_errorbar()`

Comparison

link

`add_test_`

`pvalue()`
`asterisks()`

Example:
`add_test_pvalue()`

Distribution

link

`add_boxplot()` `add_violin()`

Proportion

link

`add_barstack()` `add_pie()`
`add_areastack()` `add_donut()`

Annotation

link

`add_title()` `add_annotation_text()`
`add_caption()` `add_annotation_rectangle()`
`add_annotation_line()`
`add_reference_lines()`

ggplot2 code

link

`add()`
`add(ggplot2::geom_point())`

More

`add_heatmap()` `add_curvefit()`
`add_histogram()`

Adjust

Plot

link

`adjust_size()` `adjust_description()`
`adjust_colors()` `adjust_padding()`
`adjust_font()` `adjust_legend_title()`
`adjust_legend_position()`

Axes

link

`adjust_x_axis()` `adjust_y_axis()`
`adjust_x_axis_title()` `adjust_y_axis_title()`

Data labels

link

`rename_`
`reorder_`
`sort_`
`reverse_`

`color_labels()`
`x_axis_labels()`
`y_axis_labels()`

Examples:
`rename_color_labels()`
`sort_x_axis_labels()`
`reorder_y_axis_labels()`

Remove

Axes

link

`remove_`

`x_axis_`
`y_axis_`

`line()`
`ticks()`
`labels()`
`title()`

Examples:
`remove_x_axis()`
`remove_x_axis_title()`

More

`remove_title()` `remove_legend()`
`remove_caption()` `remove_legend_title()`
`remove_padding()`

More

Color schemes

link

`colors_discrete_`
`friendly`
`seaside`
`apple`

`colors_continuous_`
`viridis`
`plasma`
`mako`

`colors_diverging_`
`blue2brown`
`blue2red`
`spectral`

Split plot

link

`split_plot(by, ncol, nrow, ...)`

Output

link

`save_plot("my_plot.pdf")`
`view_plot()`

Datasets

link

`animals`
`climate`
`dinosaurs`
`distributions`
`energy`

`energy_week`
`gene_expression`
`spendings`
`study`
`time_course`