

Package ‘reborn’

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Title Statistical Data Visualization, the 'seaborn' Way

Version 1.0.0

Description An 'R' port of the 'Python' 'seaborn' library. 'reborn' mirrors the 'seaborn' public function API (identical function names, argument names, and defaults) and renders visually indistinguishable plots using 'ggplot2'. Because every 'reborn' plot is a 'ggplot' object, it can be extended with the full 'ggplot2' grammar of graphics.

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axes_style	<i>Get the parameters that control the general style of the plots</i>
------------	---

Description

Port of `seaborn.axes_style`. Returns the resolved style definition.

Usage

```
axes_style(style = NULL, rc = NULL)
```

```
set_style(style = NULL, rc = NULL)
```

Arguments

style	One of "darkgrid", "whitegrid", "dark", "white", "ticks".
rc	Optional named list of overrides.

Value

A named list describing the style.

barplot	<i>Show point estimates and errors as bars</i>
---------	--

Description

Port of `seaborn.barplot`. Bar heights are an aggregate (default mean) with a bootstrap CI error bar. Returns a [reaborn_plot](#).

Usage

```
barplot(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  hue = NULL,  
  order = NULL,  
  hue_order = NULL,  
  estimator = "mean",  
  errorbar = list("ci", 95),  
  n_boot = 1000,  
  seed = NULL,  
  units = NULL,  
  weights = NULL,
```

```

orient = NULL,
color = NULL,
palette = NULL,
saturation = 0.75,
fill = TRUE,
width = 0.8,
dodge = "auto",
gap = 0,
capsize = 0,
err_kws = NULL,
legend = "auto",
.facet_vars = NULL,
...
)

```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables; the categorical one defines the groups.
<code>hue</code>	Grouping variable for color (dodged).
<code>order, hue_order</code>	Level orderings.
<code>estimator, errorbar, n_boot, seed</code>	Aggregation + error settings.
<code>units, weights</code>	Bootstrap structure / weights (units reserved).
<code>orient</code>	"v", "h", or NULL to infer.
<code>color, palette, saturation, fill</code>	Color controls (saturation default 0.75).
<code>width, gap</code>	Box width and gap between dodged boxes.
<code>dodge</code>	How to dodge bars by hue ("auto", TRUE, or FALSE).
<code>capsize</code>	Width of the error bar caps.
<code>err_kws</code>	Passed to the error bar geom.
<code>legend</code>	Legend control.
<code>.facet_vars</code>	Internal; facet columns forwarded by the figure-level dispatchers (catplot/displot/relplot). Not intended for direct use.
<code>...</code>	Passed to the bar geom.

Value

A `reborn_plot`.

`boxenplot`*Draw an enhanced box plot for larger datasets*

Description

Port of `seaborn.boxenplot` (letter-value plot). Returns a [reborn_plot](#).

Usage

```
boxenplot(  
    data = NULL,  
    x = NULL,  
    y = NULL,  
    hue = NULL,  
    order = NULL,  
    hue_order = NULL,  
    orient = NULL,  
    color = NULL,  
    palette = NULL,  
    saturation = 0.75,  
    fill = TRUE,  
    width = 0.8,  
    gap = 0,  
    linewidth = NULL,  
    linecolor = NULL,  
    width_method = "exponential",  
    k_depth = "tukey",  
    outlier_prop = 0.007,  
    trust_alpha = 0.05,  
    showfliers = TRUE,  
    legend = "auto",  
    .facet_vars = NULL,  
    ...  
)
```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables; the categorical one defines the groups.
<code>hue</code>	Grouping variable for color (dodged).
<code>order, hue_order</code>	Level orderings.
<code>orient</code>	"v", "h", or NULL to infer.
<code>color, palette, saturation, fill</code>	Color controls (saturation default 0.75).

<code>width, gap</code>	Box width and gap between dodged boxes.
<code>linewidth</code>	Box outline width.
<code>linecolor</code>	Box outline color.
<code>width_method</code>	"exponential", "linear", or "area".
<code>k_depth</code>	"tukey", "proportion", "trustworthy", "full", or an int.
<code>outlier_prop, trust_alpha</code>	Tail-rule parameters.
<code>showfliers</code>	Draw outlier points.
<code>legend</code>	Legend control.
<code>.facet_vars</code>	Internal; facet columns forwarded by the figure-level dispatchers (catplot/displot/replot). Not intended for direct use.
<code>...</code>	Passed to <code>ggplot2::geom_boxplot</code> .

Value

A `reborn_plot`.

boxplot

Draw a box plot

Description

Port of `seaborn.boxplot`. Returns a [reborn_plot](#).

Usage

```
boxplot(
  data = NULL,
  x = NULL,
  y = NULL,
  hue = NULL,
  order = NULL,
  hue_order = NULL,
  orient = NULL,
  color = NULL,
  palette = NULL,
  saturation = 0.75,
  fill = TRUE,
  dodge = "auto",
  width = 0.8,
  gap = 0,
  whis = 1.5,
  linecolor = "auto",
  linewidth = NULL,
```

```

    fliersize = NULL,
    legend = "auto",
    .facet_vars = NULL,
    ...
)

```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables; the categorical one defines the groups.
<code>hue</code>	Grouping variable for color (dodged).
<code>order, hue_order</code>	Level orderings.
<code>orient</code>	"v", "h", or NULL to infer.
<code>color, palette, saturation, fill</code>	Color controls (saturation default 0.75).
<code>dodge</code>	How to dodge boxes by hue ("auto", TRUE, or FALSE).
<code>width, gap</code>	Box width and gap between dodged boxes.
<code>whis</code>	Whisker length in IQR units (default 1.5).
<code>linecolor, linewidth, fliersize</code>	Line and outlier styling.
<code>legend</code>	Legend control.
<code>.facet_vars</code>	Internal; facet columns forwarded by the figure-level dispatchers (catplot/displot/relplot). Not intended for direct use.
<code>...</code>	Passed to ggplot2::geom_boxplot .

Value

A `reborn_plot`.

catplot

Figure-level interface for categorical plots

Description

Port of `seaborn.catplot`. Dispatches to [stripplot](#) (`kind = "strip"`), [boxplot](#), [barplot](#), [pointplot](#), or [countplot](#) and adds row/col faceting. Returns a faceted `reborn_plot`.

Usage

```

catplot(
  data = NULL,
  x = NULL,
  y = NULL,
  hue = NULL,
  row = NULL,
  col = NULL,
  kind = "strip",
  estimator = "mean",
  errorbar = list("ci", 95),
  n_boot = 1000,
  seed = NULL,
  units = NULL,
  weights = NULL,
  order = NULL,
  hue_order = NULL,
  row_order = NULL,
  col_order = NULL,
  col_wrap = NULL,
  height = 5,
  aspect = 1,
  orient = NULL,
  color = NULL,
  palette = NULL,
  legend = "auto",
  facet_kws = NULL,
  ...
)

```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables; the categorical one defines the groups.
<code>hue</code>	Grouping variable for color (dodged).
<code>row, col, col_wrap, row_order, col_order</code>	Faceting controls.
<code>kind</code>	One of "strip", "box", "bar", "point", "count".
<code>estimator, errorbar, n_boot, seed</code>	Aggregation settings (bar/point).
<code>units</code>	Unit grouping for bootstrap (bar/point kinds).
<code>weights</code>	Observation weights (bar/point kinds).
<code>order, hue_order</code>	Level orderings.
<code>height, aspect</code>	Facet sizing (stored as attributes).
<code>orient</code>	"v", "h", or NULL to infer.

color	Single color override.
palette	Palette for the hue mapping.
legend	Legend control.
facet_kws	Reserved for compatibility.
...	Passed to the underlying plotter.

Value

A `reborn_plot`.

clustermap	<i>Plot a hierarchically-clustered heatmap</i>
------------	--

Description

Port of `seaborn.clustermap`. Reorders rows/columns by hierarchical clustering and draws dendrograms alongside the heatmap. Returns a patchwork composition.

Usage

```
clustermap(
    data,
    method = "average",
    metric = "euclidean",
    z_score = NULL,
    standard_scale = NULL,
    row_cluster = TRUE,
    col_cluster = TRUE,
    cmap = NULL,
    dendrogram_ratio = 0.2,
    ...
)
```

Arguments

data	A matrix or data frame.
method	Linkage method (default "average").
metric	Distance metric (default "euclidean").
z_score	Normalize rows (0) or columns (1) to z-scores.
standard_scale	Scale rows (0) or columns (1) to [0, 1].
row_cluster, col_cluster	Whether to cluster rows / columns.
cmap	Colormap (default "rocket").
dendrogram_ratio	Fraction of the figure used by the dendrograms.
...	Passed to heatmap .

Value

A reaborn_plot (patchwork).

color_palette

Return a list of colors or a continuous colormap defining a palette

Description

Port of seaborn.color_palette. Possible palette values include the name of a seaborn palette (deep, muted, bright, pastel, dark, colorblind), a matplotlib colormap name, "husl"/"hls", a cubehelix shorthand ("ch: ..."), "light:<color>", "dark:<color>", "blend:<c1>,<c2>", or a sequence of colors.

Usage

```
color_palette(palette = NULL, n_colors = NULL, desat = NULL, as_cmap = FALSE)
```

```
hls_palette(n_colors = 6, h = 0.01, l = 0.6, s = 0.65, as_cmap = FALSE)
```

```
husl_palette(n_colors = 6, h = 0.01, s = 0.9, l = 0.65, as_cmap = FALSE)
```

```
dark_palette(
  color,
  n_colors = 6,
  reverse = FALSE,
  as_cmap = FALSE,
  input = "rgb"
)
```

```
light_palette(
  color,
  n_colors = 6,
  reverse = FALSE,
  as_cmap = FALSE,
  input = "rgb"
)
```

```
diverging_palette(
  h_neg,
  h_pos,
  s = 75,
  l = 50,
  sep = 1,
  n = 6,
  center = "light",
  as_cmap = FALSE
)
```

```

)

blend_palette(colors, n_colors = 6, as_cmap = FALSE, input = "rgb")

mpl_palette(name, n_colors = 6, as_cmap = FALSE)

cubehelix_palette(
  n_colors = 6,
  start = 0,
  rot = 0.4,
  gamma = 1,
  hue = 0.8,
  light = 0.85,
  dark = 0.15,
  reverse = FALSE,
  as_cmap = FALSE
)

```

Arguments

palette	NULL, a string, or a sequence of colors.
n_colors	Number of colors. If NULL, depends on palette.
desat	Proportion to desaturate each color by.
as_cmap	If TRUE, return a continuous colormap (a reaborn_cmap).
h, l, s	Hue, lightness, saturation anchors in $[0, 1]$.
color	Base color for the high end of a sequential palette.
reverse	Reverse the direction of the blend.
input	Color space of the input color: "rgb", "hls", or "husl".
h_neg, h_pos	Anchor hues ($[0, 359]$) for the negative and positive ends.
sep	Size of the intermediate (center) region.
n	Number of colors (when not returning a cmap).
center	"light" or "dark" center.
colors	A sequence of colors to blend between.
name	Name of a matplotlib colormap.
start, rot, gamma, hue, light, dark	Cubehelix parameters (see seaborn).

Value

A character vector of hex colors, or a reaborn_cmap.

countplot

*Show value counts as bars***Description**

Port of `seaborn.countplot`. Returns a [reborn_plot](#).

Usage

```
countplot(
    data = NULL,
    x = NULL,
    y = NULL,
    hue = NULL,
    order = NULL,
    hue_order = NULL,
    orient = NULL,
    color = NULL,
    palette = NULL,
    saturation = 0.75,
    fill = TRUE,
    stat = "count",
    width = 0.8,
    dodge = "auto",
    gap = 0,
    legend = "auto",
    .facet_vars = NULL,
    ...
)
```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables; the categorical one defines the groups.
<code>hue</code>	Grouping variable for color (dodged).
<code>order, hue_order</code>	Level orderings.
<code>orient</code>	"v", "h", or NULL to infer.
<code>color, palette, saturation, fill</code>	Color controls (saturation default 0.75).
<code>stat</code>	"count", "percent", "proportion", or "probability".
<code>width, gap</code>	Box width and gap between dodged boxes.
<code>dodge</code>	How to dodge bars by hue ("auto", TRUE, or FALSE).
<code>legend</code>	Legend control.

. facet_vars Internal; facet columns forwarded by the figure-level dispatchers (catplot/displot/relplot).
Not intended for direct use.

... Passed to the bar geom.

Value

A reaborn_plot.

desaturate *Decrease the saturation of a color*

Description

Port of seaborn.desaturate.

Usage

```
desaturate(color, prop)
```

Arguments

color A matplotlib-compatible color.

prop Proportion (in $[0, 1]$) of the original saturation to keep.

Value

A hex color string.

despine *Remove spines from a plot*

Description

Port of seaborn.despine. Returns a ggplot2 theme partial that removes the requested plot borders and (for borderless styles) draws explicit axis lines on the kept sides. Add it to a reaborn/ggplot plot: `p + despine()`.

Usage

```
despine(  
  fig = NULL,  
  ax = NULL,  
  top = TRUE,  
  right = TRUE,  
  left = FALSE,  
  bottom = FALSE,  
  offset = NULL,  
  trim = FALSE  
)
```

Arguments

fig, ax	Ignored (kept for signature compatibility with seaborn).
top, right, left, bottom	Logical; whether to remove that spine. Defaults match seaborn: remove top and right, keep left and bottom.
offset, trim	Not supported by ggplot2; accepted but ignored in v1 with a one-time message. Present for signature compatibility.

Value

A ggplot2 theme object to add to a plot.

 displot

Figure-level interface for distribution plots

Description

Port of `seaborn.displot`. Draws [histplot](#) (`kind = "hist"`), [kdeplot](#) (`kind = "kde"`), or [ecdfplot](#) (`kind = "ecdf"`) onto a grid of facets. Returns a faceted [reaborn_plot](#).

Usage

```
displot(
  data = NULL,
  x = NULL,
  y = NULL,
  hue = NULL,
  row = NULL,
  col = NULL,
  weights = NULL,
  kind = "hist",
  rug = FALSE,
  rug_kws = NULL,
  palette = NULL,
  hue_order = NULL,
  hue_norm = NULL,
  color = NULL,
  col_wrap = NULL,
  row_order = NULL,
  col_order = NULL,
  legend = TRUE,
  height = 5,
  aspect = 1,
  facet_kws = NULL,
  ...
)
```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Column name/vector for the histogram variable (use <code>y</code> for a horizontal histogram).
<code>hue</code>	Grouping variable for color.
<code>row, col, col_wrap, row_order, col_order</code>	Faceting controls.
<code>weights</code>	Optional observation weights.
<code>kind</code>	"hist", "kde", or "ecdf".
<code>rug</code>	Add a marginal rug.
<code>rug_kws</code>	Arguments forwarded to the rug layer when <code>rug = TRUE</code> .
<code>palette, hue_order, hue_norm, color</code>	Color controls.
<code>legend</code>	Show the legend.
<code>height, aspect</code>	Facet size controls (stored as attributes).
<code>facet_kws</code>	Reserved for compatibility.
<code>...</code>	Passed to the bar geom.

Value

A `reborn_plot`.

<code>dogplot</code>	<i>Who's a good boy?</i>
----------------------	--------------------------

Description

Port of `seaborn.dogplot` (an easter egg). Prints an affirmation.

Usage

```
dogplot(...)
```

Arguments

`...` Ignored.

Value

Invisibly `NULL`.

 ecdfplot

Plot an empirical cumulative distribution function

Description

Port of seaborn.ecdfplot. Returns a [reaborn_plot](#).

Usage

```
ecdfplot(
    data = NULL,
    x = NULL,
    y = NULL,
    hue = NULL,
    weights = NULL,
    stat = "proportion",
    complementary = FALSE,
    palette = NULL,
    hue_order = NULL,
    hue_norm = NULL,
    legend = TRUE,
    .facet_vars = NULL,
    ...
)
```

Arguments

data	A data frame.
x, y	Column name/vector for the histogram variable (use y for a horizontal histogram).
hue	Grouping variable for color.
weights	Optional observation weights.
stat	"proportion", "count", or "percent".
complementary	Plot the complementary ECDF (1 - F).
palette	Palette for the hue mapping.
hue_order	Order of hue levels.
hue_norm	Normalization for a numeric hue.
legend	Show the legend.
.facet_vars	Internal; facet columns forwarded by the figure-level dispatchers (catplot/displot/relplot). Not intended for direct use.
...	Passed to the bar geom.

Value

A [reaborn_plot](#).

FacetGrid	<i>A faceted grid of plots</i>
-----------	--------------------------------

Description

Lightweight port of `seaborn.FacetGrid`. In `reborn`, faceting is usually done by adding `+ ggplot2::facet_wrap()/facet_grid()` to a plot, or via the figure-level functions (`relplot`, `displot`, `catplot`, `lmpplot`). This constructor returns a base plot you can map geoms onto.

Usage

```
FacetGrid(
  data,
  row = NULL,
  col = NULL,
  hue = NULL,
  col_wrap = NULL,
  height = 3,
  aspect = 1,
  palette = NULL
)
```

Arguments

<code>data</code>	A data frame.
<code>row, col, hue</code>	Faceting / hue variables.
<code>col_wrap</code>	Wrap columns at this width.
<code>height, aspect</code>	Facet sizing.
<code>palette</code>	Hue palette.

Value

A `reborn_plot`.

<code>heatmap</code>	<i>Plot rectangular data as a color-encoded matrix</i>
----------------------	--

Description

Port of `seaborn.heatmap`. Returns a `reborn_plot`.

Usage

```
heatmap(
  data,
  vmin = NULL,
  vmax = NULL,
  cmap = NULL,
  center = NULL,
  robust = FALSE,
  annot = NULL,
  fmt = ".2g",
  annot_kws = NULL,
  linewidths = 0,
  linecolor = "white",
  cbar = TRUE,
  square = FALSE,
  xticklabels = "auto",
  yticklabels = "auto",
  mask = NULL,
  ...
)
```

Arguments

<code>data</code>	A matrix or data frame of values.
<code>vmin, vmax</code>	Color scale limits.
<code>cmap</code>	A colormap name (default "rocket", or "icefire" with center).
<code>center</code>	Value at which to center a diverging colormap.
<code>robust</code>	Use the 2nd/98th percentiles for the color limits.
<code>annot</code>	Annotate each cell with its value (TRUE) or a matrix of labels.
<code>fmt</code>	Number format for annotations (default ".2g").
<code>annot_kws</code>	Passed to the text geom.
<code>linewidths, linecolor</code>	Cell border width and color.
<code>cbar</code>	Show the color bar.
<code>square</code>	Force square cells.
<code>xticklabels, yticklabels</code>	Tick label control ("auto", TRUE/FALSE).
<code>mask</code>	Logical matrix of cells to hide.
<code>...</code>	Reserved.

Value

A `reborn_plot`.

`histplot`*Plot a univariate or bivariate histogram*

Description

Port of seaborn.histplot. Returns a [reaborn_plot](#).

Usage

```
histplot(  
    data = NULL,  
    x = NULL,  
    y = NULL,  
    hue = NULL,  
    weights = NULL,  
    stat = "count",  
    bins = "auto",  
    binwidth = NULL,  
    binrange = NULL,  
    discrete = NULL,  
    cumulative = FALSE,  
    common_bins = TRUE,  
    common_norm = TRUE,  
    multiple = "layer",  
    element = "bars",  
    fill = TRUE,  
    shrink = 1,  
    kde = FALSE,  
    kde_kws = NULL,  
    palette = NULL,  
    hue_order = NULL,  
    hue_norm = NULL,  
    color = NULL,  
    legend = TRUE,  
    .facet_vars = NULL,  
    ...  
)
```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Column name/vector for the histogram variable (use <code>y</code> for a horizontal histogram).
<code>hue</code>	Grouping variable for color.
<code>weights</code>	Optional observation weights.

stat	One of "count", "frequency", "density", "probability", "proportion", "percent".
bins, binwidth, binrange, discrete	Binning controls (see <code>rb_hist_bins</code>).
cumulative	Accumulate counts.
common_bins, common_norm	Share bins/normalization across hue groups.
multiple	"layer", "stack", "fill", or "dodge".
element	"bars" or "step".
fill	Whether to fill the bars.
shrink	Shrink bar widths by this factor.
kde	Overlay a KDE curve.
kde_kws	Arguments for the KDE (e.g. <code>bw_adjust</code>).
palette, hue_order, hue_norm, color	Color controls.
legend	Show the legend.
.facet_vars	Internal; facet columns forwarded by the figure-level dispatchers (<code>catplot/displot/relplot</code>). Not intended for direct use.
...	Passed to the bar geom.

Value

A `reborn_plot`.

<code>jointplot</code>	<i>Draw a bivariate plot with marginal distributions</i>
------------------------	--

Description

Port of `seaborn.jointplot`. Returns a patchwork composition (printable and saveable like any `reborn` plot).

Usage

```
jointplot(
    data = NULL,
    x = NULL,
    y = NULL,
    hue = NULL,
    kind = "scatter",
    height = 6,
    ratio = 5,
    space = 0.2,
    color = NULL,
    palette = NULL,
    ...
)
```

Arguments

data	A data frame.
x, y	Variables.
hue	Grouping variable for color.
kind	"scatter", "kde", "reg", "hist", or "hex".
height	Figure size in inches (stored as an attribute).
ratio	Joint-axes-to-marginal size ratio.
space	Spacing between joint and marginal axes.
color, palette	Color controls.
...	Passed to the joint plotting function.

Value

A `reborn_plot` (patchwork).

kdeplot

Plot a univariate or bivariate kernel density estimate

Description

Port of `seaborn.kdeplot`. The KDE matches `scipy.stats.gaussian_kde` exactly. Returns a [reborn_plot](#).

Usage

```
kdeplot(  
    data = NULL,  
    x = NULL,  
    y = NULL,  
    hue = NULL,  
    weights = NULL,  
    palette = NULL,  
    hue_order = NULL,  
    hue_norm = NULL,  
    color = NULL,  
    fill = NULL,  
    multiple = "layer",  
    common_norm = TRUE,  
    common_grid = FALSE,  
    cumulative = FALSE,  
    bw_method = "scott",  
    bw_adjust = 1,  
    log_scale = NULL,  
    levels = 10,  
)
```

```

    thresh = 0.05,
    gridsize = 200,
    cut = 3,
    clip = NULL,
    legend = TRUE,
    .facet_vars = NULL,
    ...
)

```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Column name/vector for the histogram variable (use <code>y</code> for a horizontal histogram).
<code>hue</code>	Grouping variable for color.
<code>weights</code>	Optional observation weights.
<code>palette, hue_order, hue_norm, color</code>	Color controls.
<code>fill</code>	Fill under the density curve (default FALSE).
<code>multiple</code>	"layer", "stack", or "fill".
<code>common_norm, common_grid</code>	Share normalization / evaluation grid across hue groups.
<code>cumulative</code>	Plot the cumulative distribution.
<code>bw_method, bw_adjust</code>	Bandwidth controls (scipy-compatible).
<code>log_scale</code>	Reserved for compatibility.
<code>levels, thresh</code>	Bivariate contour levels and density threshold.
<code>gridsize, cut, clip</code>	KDE grid controls.
<code>legend</code>	Show the legend.
<code>.facet_vars</code>	Internal; facet columns forwarded by the figure-level dispatchers (catplot/displot/relplot). Not intended for direct use.
<code>...</code>	Passed to the bar geom.

Value

A `reborn_plot`.

`lineplot`*Draw a line plot with aggregation and error bands*

Description

Port of `seaborn.lineplot`. When the data has repeated observations per x value, they are aggregated (default: mean) and an error band (default: 95% bootstrap CI) is drawn. Returns a [reborn_plot](#).

Usage

```
lineplot(  
    data = NULL,  
    x = NULL,  
    y = NULL,  
    hue = NULL,  
    size = NULL,  
    style = NULL,  
    units = NULL,  
    weights = NULL,  
    palette = NULL,  
    hue_order = NULL,  
    hue_norm = NULL,  
    sizes = NULL,  
    size_order = NULL,  
    size_norm = NULL,  
    dashes = TRUE,  
    markers = NULL,  
    style_order = NULL,  
    estimator = "mean",  
    errorbar = list("ci", 95),  
    n_boot = 1000,  
    seed = NULL,  
    orient = "x",  
    sort = TRUE,  
    err_style = "band",  
    err_kws = NULL,  
    legend = "auto",  
    .facet_vars = NULL,  
    ...  
)
```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Column names (strings) or vectors giving the axes.

hue, size, style	Column names/vectors for color, size, and marker-style semantics.
units, weights	Column names/vectors for the unit grouping and weights.
palette, hue_order, hue_norm	Control the color mapping.
sizes, size_order, size_norm	Control the size mapping.
dashes, markers	Style mapping controls.
style_order	Order of style levels.
estimator	Aggregation function name or callable (default "mean"; NULL to plot all observations).
errorbar	Error representation: a method name or <code>list(method, level)</code> (default <code>list("ci", 95)</code>).
n_boot, seed	Bootstrap settings for errorbar = "ci".
orient, sort, err_style, err_kws	See seaborn.
legend	"auto", "brief", "full", or FALSE.
.facet_vars	Internal; facet columns forwarded by the figure-level dispatchers (catplot/displot/relplot). Not intended for direct use.
...	Passed to <code>ggplot2::geom_line</code> .

Value

A `reborn_plot`.

Implot

Figure-level interface for regression plots

Description

Port of `seaborn.lmplot`. Draws `regplot` across a grid of facets and/or hue groups. Returns a `reborn_plot`.

Usage

```
lmplot(
  data = NULL,
  x = NULL,
  y = NULL,
  hue = NULL,
  col = NULL,
  row = NULL,
  palette = NULL,
  col_wrap = NULL,
  height = 5,
```

```

    aspect = 1,
    order = 1,
    logistic = FALSE,
    lowess = FALSE,
    robust = FALSE,
    logx = FALSE,
    ci = 95,
    n_boot = 1000,
    seed = NULL,
    scatter = TRUE,
    fit_reg = TRUE,
    hue_order = NULL,
    row_order = NULL,
    col_order = NULL,
    legend = TRUE,
    facet_kws = NULL,
    ...
)

```

Arguments

data	A data frame.
x, y	Variables.
hue, col, row	Semantic / faceting variables.
palette	Hue palette.
col_wrap, row_order, col_order, hue_order	Ordering / wrapping.
height, aspect	Facet sizing.
order	Polynomial order for the fit (default 1, linear).
logistic, lowess, robust, logx	Alternative fits.
ci	Confidence-band width (default 95; NULL to omit).
n_boot, seed	Bootstrap settings.
scatter, fit_reg	Whether to draw the scatter / the fit.
legend, facet_kws	Legend / facet options.
...	Reserved.

Value

A reaborn_plot.

load_dataset	<i>Load an example dataset from the seaborn-data repository</i>
--------------	---

Description

Port of `seaborn.load_dataset`. Bundled datasets (penguins, tips, iris, flights) load offline; others download from the seaborn-data repo and cache.

Usage

```
load_dataset(name, cache = TRUE, data_home = NULL, ...)

get_dataset_names()
```

Arguments

name	Name of the dataset (the stem of a .csv in seaborn-data).
cache	Whether to use the local cache (and bundled data).
data_home	Optional cache directory.
...	Reserved for compatibility.

Value

A `data.frame`, with categorical columns coerced to ordered factors matching seaborn.
For `get_dataset_names`, a character vector of available dataset names.

move_legend	<i>Reposition a plot's legend</i>
-------------	-----------------------------------

Description

Port of `seaborn.move_legend`. Returns a theme partial controlling legend position. Add it to a plot: `p + move_legend("upper right")`.

Usage

```
move_legend(obj = NULL, loc = "best", ...)
```

Arguments

obj	Ignored (signature compatibility).
loc	A seaborn/matplotlib location string (e.g. "upper right", "center left"), "best", or a length-2 numeric vector of relative coords.
...	Additional theme arguments (e.g. title).

Value

A ggplot2 theme object to add to a plot.

pairplot	<i>Plot pairwise relationships in a dataset</i>
----------	---

Description

Port of seaborn.pairplot. Returns a patchwork matrix of scatter plots with univariate distributions on the diagonal.

Usage

```
pairplot(  
  data,  
  vars = NULL,  
  hue = NULL,  
  kind = "scatter",  
  diag_kind = "auto",  
  palette = NULL,  
  height = 2.5,  
  aspect = 1,  
  corner = FALSE,  
  ...  
)
```

Arguments

data	A data frame.
vars	Columns to include (default all numeric).
hue	Grouping variable for color.
kind	Off-diagonal kind: "scatter" or "reg".
diag_kind	Diagonal kind: "auto", "hist", or "kde".
palette, height, aspect, corner	Layout controls.
...	Reserved.

Value

A reaborn_plot (patchwork).

palplot	<i>Plot the values in a color palette as a horizontal array</i>
---------	---

Description

Port of seaborn.palplot. Returns a [reborn_plot](#).

Usage

```
palplot(pal, size = 1)
```

Arguments

pal	A sequence of colors (e.g. from color_palette).
size	Scaling factor for the swatch size.

Value

A [reborn_plot](#).

plotting_context	<i>Get the parameters that control the scaling of plot elements</i>
------------------	---

Description

Port of seaborn.plotting_context. Returns a named list of resolved sizes.

Usage

```
plotting_context(context = NULL, font_scale = 1, rc = NULL)
```

```
set_context(context = NULL, font_scale = 1, rc = NULL)
```

Arguments

context	One of "paper", "notebook", "talk", "poster", or a list.
font_scale	Separate scaling factor applied to the font sizes only.
rc	Optional named list of overrides.

Value

A named list of context parameters.

`pointplot`*Show point estimates and errors with markers*

Description

Port of `seaborn.pointplot`. Returns a [reaborn_plot](#).

Usage

```
pointplot(  
    data = NULL,  
    x = NULL,  
    y = NULL,  
    hue = NULL,  
    order = NULL,  
    hue_order = NULL,  
    estimator = "mean",  
    errorbar = list("ci", 95),  
    n_boot = 1000,  
    seed = NULL,  
    units = NULL,  
    weights = NULL,  
    color = NULL,  
    palette = NULL,  
    markers = "o",  
    linestyle = "-",  
    dodge = FALSE,  
    orient = NULL,  
    capsize = 0,  
    legend = "auto",  
    err_kws = NULL,  
    .facet_vars = NULL,  
    ...  
)
```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables; the categorical one defines the groups.
<code>hue</code>	Grouping variable for color (dodged).
<code>order, hue_order</code>	Level orderings.
<code>estimator, errorbar, n_boot, seed</code>	Aggregation + error settings.
<code>units, weights</code>	Bootstrap structure / weights (units reserved).

color	Single color override.
palette	Palette for the hue mapping.
markers, linestyles	Marker and line styling.
dodge	Dodge points by hue.
orient	"v", "h", or NULL to infer.
capsize	Width of the error bar caps.
legend	Legend control.
err_kws	Passed to the error bar geom.
.facet_vars	Internal; facet columns forwarded by the figure-level dispatchers (catplot/displot/replot). Not intended for direct use.
...	Passed to the bar geom.

Value

A `reborn_plot`.

python-literals

Python literal compatibility values

Description

True, False, and None are provided so that seaborn Python code pasted into R (e.g. `histplot(data = df, x = "a", kde = True)`) runs unchanged. They are exactly TRUE, FALSE, and NULL.

Usage

True

False

None

Format

True and False are length-one logicals; None is NULL.

Value

These objects are exported constants, not functions. Referencing one yields its stored value: True is the length-one logical vector TRUE, False is the length-one logical vector FALSE, and None is NULL. They exist only so that seaborn code containing Python's True, False, and None literals evaluates in R unchanged.

`regplot`*Plot data and a linear regression model fit*

Description

Port of `seaborn.regplot`. The confidence band is a bootstrap interval, like `seaborn`. Returns a [reborn_plot](#).

Usage

```
regplot(  
    data = NULL,  
    x = NULL,  
    y = NULL,  
    order = 1,  
    logistic = FALSE,  
    lowess = FALSE,  
    robust = FALSE,  
    logx = FALSE,  
    ci = 95,  
    n_boot = 1000,  
    seed = NULL,  
    scatter = TRUE,  
    fit_reg = TRUE,  
    color = NULL,  
    marker = "o",  
    scatter_kws = NULL,  
    line_kws = NULL,  
    truncate = TRUE,  
    x_jitter = NULL,  
    y_jitter = NULL,  
    ...  
)
```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables.
<code>order</code>	Polynomial order for the fit (default 1, linear).
<code>logistic, lowess, robust, logx</code>	Alternative fits.
<code>ci</code>	Confidence-band width (default 95; NULL to omit).
<code>n_boot, seed</code>	Bootstrap settings.
<code>scatter, fit_reg</code>	Whether to draw the scatter / the fit.

color	Color for points and line (default the first palette color).
marker	Marker (accepted for compatibility).
scatter_kws, line_kws	Lists of extra args for the point / line layers.
truncate	Limit the regression line to the data range.
x_jitter	Uniform jitter added to x for display only.
y_jitter	Uniform jitter added to y for display only.
...	Reserved.

Value

A `reborn_plot`.

relplot	<i>Figure-level interface for relational plots</i>
---------	--

Description

Port of `seaborn.relplot`. Draws [scatterplot](#) (`kind = "scatter"`) or [lineplot](#) (`kind = "line"`) onto a grid of facets defined by `row/col`. Returns a [reborn_plot](#) (a faceted `ggplot`) with the legend outside, like a `seaborn.FacetGrid`.

Usage

```
relplot(
    data = NULL,
    x = NULL,
    y = NULL,
    hue = NULL,
    size = NULL,
    style = NULL,
    units = NULL,
    weights = NULL,
    row = NULL,
    col = NULL,
    col_wrap = NULL,
    row_order = NULL,
    col_order = NULL,
    palette = NULL,
    hue_order = NULL,
    hue_norm = NULL,
    sizes = NULL,
    size_order = NULL,
    size_norm = NULL,
    markers = NULL,
```

```

    dashes = NULL,
    style_order = NULL,
    legend = "auto",
    kind = "scatter",
    height = 5,
    aspect = 1,
    facet_kws = NULL,
    ...
)

```

Arguments

data	A data frame.
x, y	Column names (strings) or vectors giving the axes.
hue, size, style	Column names/vectors for color, size, and marker-style semantics.
units, weights	Column names/vectors for the unit grouping and weights.
row, col	Column names to facet by.
col_wrap	Wrap the column facets at this width.
row_order, col_order	Facet orderings.
palette, hue_order, hue_norm	Control the color mapping.
sizes, size_order, size_norm	Control the size mapping.
dashes, markers	Style mapping controls.
style_order	Order of style levels.
legend	"auto", "brief", "full", or FALSE.
kind	"scatter" or "line".
height, aspect	Facet height (inches) and aspect ratio (stored as attributes used as defaults when saving).
facet_kws	Reserved for compatibility.
...	Passed to ggplot2::geom_line .

Value

A `reborn_plot`.

reset_defaults	<i>Restore matplotlib/ggplot2 defaults</i>
----------------	--

Description

Port of `seaborn.reset_defaults / seaborn.reset_orig`.

Usage

```
reset_defaults()
```

```
reset_orig()
```

Value

Invisibly NULL.

residplot	<i>Plot the residuals of a linear regression</i>
-----------	--

Description

Port of `seaborn.residplot`. Returns a [reaborn_plot](#).

Usage

```
residplot(  
    data = NULL,  
    x = NULL,  
    y = NULL,  
    lowess = FALSE,  
    order = 1,  
    robust = FALSE,  
    color = NULL,  
    scatter_kws = NULL,  
    line_kws = NULL,  
    ...  
)
```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables.
<code>lowess</code>	Add a lowess smooth of the residuals.
<code>order</code>	Polynomial order for the fit (default 1, linear).

robust	Fit a robust regression when computing residuals.
color	Color for points and line (default the first palette color).
scatter_kws, line_kws	Lists of extra args for the point / line layers.
...	Reserved.

Value

A `reborn_plot`.

rugplot	<i>Plot marginal rug ticks</i>
---------	--------------------------------

Description

Port of `seaborn.rugplot`. Draws small ticks at each observation along the relevant axis. Returns a [reborn_plot](#) (typically added to another plot, but usable standalone).

Usage

```
rugplot(
    data = NULL,
    x = NULL,
    y = NULL,
    hue = NULL,
    height = 0.025,
    expand_margins = TRUE,
    palette = NULL,
    hue_order = NULL,
    hue_norm = NULL,
    legend = TRUE,
    ...
)
```

Arguments

data	A data frame.
x, y	Column name/vector for the histogram variable (use y for a horizontal histogram).
hue	Grouping variable for color.
height	Tick height as a fraction of the axis (default 0.025).
expand_margins	Reserved for compatibility.
palette	Palette for the hue mapping.
hue_order	Order of hue levels.
hue_norm	Normalization for a numeric hue.
legend	Show the legend.
...	Passed to the bar geom.

Value

A `reborn_plot`.

<code>saturate</code>	<i>Increase the saturation of a color to its maximum</i>
-----------------------	--

Description

Port of `seaborn.saturate`.

Usage

```
saturate(color)
```

Arguments

`color` A matplotlib-compatible color.

Value

A hex color string.

<code>scatterplot</code>	<i>Draw a scatter plot with semantic mappings</i>
--------------------------	---

Description

Port of `seaborn.scatterplot`. Returns a `reborn_plot` (a `ggplot`), so it can be extended with any `ggplot2` component.

Usage

```
scatterplot(  
    data = NULL,  
    x = NULL,  
    y = NULL,  
    hue = NULL,  
    size = NULL,  
    style = NULL,  
    palette = NULL,  
    hue_order = NULL,  
    hue_norm = NULL,  
    sizes = NULL,  
    size_order = NULL,  
    size_norm = NULL,
```

```

    markers = TRUE,
    style_order = NULL,
    legend = "auto",
    ...
  )

```

Arguments

data	A data frame.
x, y	Column names (strings) or vectors giving the axes.
hue, size, style	Column names/vectors for color, size, and marker-style semantics.
palette, hue_order, hue_norm	Control the color mapping.
sizes, size_order, size_norm	Control the size mapping.
markers, style_order	Control the style (marker) mapping.
legend	"auto", "brief", "full", or FALSE.
...	Passed to ggplot2::geom_point .

Value

A `reborn_plot`.

set_color_codes	<i>Change how single-letter color codes are interpreted</i>
-----------------	---

Description

Port of `seaborn.set_color_codes`. Returns (invisibly) the mapping from the single-letter codes `b g r m y c k` to the colors of the given seaborn palette, so `reborn` helpers can resolve them like `seaborn` does.

Usage

```
set_color_codes(palette = "deep")
```

Arguments

palette	One of "deep", "muted", "pastel", "bright", "dark", "colorblind".
---------	---

Value

Invisibly, the named character vector of code -> hex mappings.

set_hls_values	<i>Independently set the hue, lightness, and/or saturation of a color</i>
----------------	---

Description

Port of seaborn.set_hls_values.

Usage

```
set_hls_values(color, h = NULL, l = NULL, s = NULL)
```

Arguments

color	A matplotlib-compatible color.
h, l, s	New hue, lightness, saturation in $[\theta, 1]$, or NULL to keep.

Value

A hex color string.

set_palette	<i>Set the matplotlib color cycle / ggplot default discrete palette</i>
-------------	---

Description

Port of seaborn.set_palette.

Usage

```
set_palette(palette, n_colors = NULL, desat = NULL, color_codes = FALSE)
```

Arguments

palette	A palette name or sequence (see color_palette).
n_colors, desat, color_codes	See seaborn.

Value

Invisibly NULL.

set_theme	<i>Set multiple theme parameters in one step</i>
-----------	--

Description

Port of `seaborn.set_theme` (and its alias `set`). Sets the global look used by subsequent `reborn` (and `ggplot2`) plots.

Usage

```
set_theme(
    context = "notebook",
    style = "darkgrid",
    palette = "deep",
    font = "sans",
    font_scale = 1,
    color_codes = TRUE,
    rc = NULL
)

set(...)
```

Arguments

`context`, `style`, `palette`, `font`, `font_scale`, `color_codes`, `rc`
 See `seaborn`.
 ... Passed to [set_theme](#).

Value

Invisibly, the applied `ggplot2::theme`.

sns-aliases	<i>seaborn-style sns. function aliases</i>
-------------	--

Description

For copy-paste compatibility with Python, `reborn` provides a `sns.`-prefixed alias for every public plotting, palette, and theming function (R allows dots in identifiers). So pasted `seaborn` code such as `sns.scatterplot(data = df, x = "a", y = "b", hue = "g")` runs verbatim. Each alias is identical to its unprefixed counterpart; see that function for arguments and details.

Value

Each `sns.`-prefixed object is the exact same function as its unprefixed counterpart (`sns.scatterplot` `<-` `scatterplot`, and so on), so calling an alias returns precisely what the counterpart returns. By category: the plotting functions (e.g. `sns.scatterplot()`, `sns.histplot()`, `sns.heatmap()`, `sns.pairplot()`, `sns.FacetGrid()`, `sns.palplot()`) return a `reborn_plot` object (a `ggplot2`/`patchwork` object that draws when printed), except the easter-egg `sns.dogplot()`, which prints an affirmation and returns `NULL` invisibly; the palette constructors (e.g. `sns.color_palette()`, `sns.husl_palette()`, `sns.cubehelix_palette()`) return a character vector of hex colors, or a `reborn_cmap`; the color helpers `sns.desaturate()`, `sns.saturate()`, and `sns.set_hls_values()` return a hex color string; `sns.axes_style()` and `sns.plotting_context()` return a named list of style/context parameters; `sns.despine()` and `sns.move_legend()` return a `ggplot2` theme object to add to a plot; `sns.load_dataset()` returns a data frame and `sns.get_dataset_names()` a character vector; and the theming setters (`sns.set_theme()`, `sns.set()`, `sns.set_style()`, `sns.set_context()`, `sns.set_palette()`, `sns.set_color_codes()`, `sns.reset_defaults()`, `sns.reset_orig()`) are called for their side effect of changing global plot defaults and return their value invisibly. See each unprefixed function's own help page for the precise structure and meaning of its return value.

Examples

```
pen <- load_dataset("penguins")
p <- sns.scatterplot(data = pen, x = "bill_length_mm", y = "bill_depth_mm",
                    hue = "species")
```

stripplot

Draw a categorical scatter with jitter

Description

Port of `seaborn.stripplot`. Returns a [reborn_plot](#).

Usage

```
stripplot(
  data = NULL,
  x = NULL,
  y = NULL,
  hue = NULL,
  order = NULL,
  hue_order = NULL,
  jitter = TRUE,
  dodge = FALSE,
  orient = NULL,
  color = NULL,
  palette = NULL,
  size = 5,
  edgecolor = "gray",
```

```

    linewidth = 0,
    legend = "auto",
    .facet_vars = NULL,
    ...
)

```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables; the categorical one defines the groups.
<code>hue</code>	Grouping variable for color (dodged).
<code>order, hue_order</code>	Level orderings.
<code>jitter</code>	TRUE, FALSE, or a numeric jitter amount.
<code>dodge</code>	Separate hue levels along the categorical axis.
<code>orient</code>	"v", "h", or NULL to infer.
<code>color</code>	Single color override.
<code>palette</code>	Palette for the hue mapping.
<code>size</code>	Marker size (seaborn default 5).
<code>edgecolor, linewidth</code>	Marker edge styling.
<code>legend</code>	Legend control.
<code>.facet_vars</code>	Internal; facet columns forwarded by the figure-level dispatchers (catplot/displot/relplot). Not intended for direct use.
<code>...</code>	Passed to the point geom.

Value

A `reborn_plot`.

swarmplot

Draw a categorical scatter with non-overlapping points

Description

Port of `seaborn.swarmplot`, using a beeswarm layout. Returns a [reborn_plot](#).

Usage

```

swarmplot(
  data = NULL,
  x = NULL,
  y = NULL,
  hue = NULL,
  order = NULL,
  hue_order = NULL,
  dodge = FALSE,
  orient = NULL,
  color = NULL,
  palette = NULL,
  size = 5,
  edgecolor = NULL,
  linewidth = 0,
  legend = "auto",
  .facet_vars = NULL,
  ...
)

```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables; the categorical one defines the groups.
<code>hue</code>	Grouping variable for color (dodged).
<code>order, hue_order</code>	Level orderings.
<code>dodge</code>	Separate hue levels along the categorical axis.
<code>orient</code>	"v", "h", or NULL to infer.
<code>color</code>	Single color override.
<code>palette</code>	Palette for the hue mapping.
<code>size</code>	Marker size (seaborn default 5).
<code>edgecolor, linewidth</code>	Marker edge styling.
<code>legend</code>	Legend control.
<code>.facet_vars</code>	Internal; facet columns forwarded by the figure-level dispatchers (catplot/displot/relplot). Not intended for direct use.
<code>...</code>	Passed to <code>ggbeeswarm::geom_beeswarm</code> .

Value

A `reborn_plot`.

theme_seaborn	<i>Build a ggplot2 theme replicating a seaborn style + context</i>
---------------	--

Description

Build a ggplot2 theme replicating a seaborn style + context

Usage

```
theme_seaborn(  
  style = "darkgrid",  
  context = "notebook",  
  font_scale = 1,  
  font = "sans"  
)
```

Arguments

style	A seaborn style name (see axes_style).
context	A seaborn context name (see plotting_context).
font_scale	Font scaling factor.
font	Base font family.

Value

A complete `ggplot2::theme` object.

violinplot	<i>Draw a violin plot</i>
------------	---------------------------

Description

Port of `seaborn.violinplot`. The kernel density matches `scipy.stats.gaussian_kde`. Returns a [reborn_plot](#).

Usage

```
violinplot(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  hue = NULL,  
  order = NULL,  
  hue_order = NULL,  
  orient = NULL,
```

```

color = NULL,
palette = NULL,
saturation = 0.75,
fill = TRUE,
inner = "box",
split = FALSE,
width = 0.8,
dodge = "auto",
gap = 0,
linewidth = NULL,
linecolor = "auto",
cut = 2,
gridsize = 100,
bw_method = "scott",
bw_adjust = 1,
density_norm = "area",
common_norm = FALSE,
legend = "auto",
inner_kws = NULL,
.facet_vars = NULL,
...
)

```

Arguments

<code>data</code>	A data frame.
<code>x, y</code>	Variables; the categorical one defines the groups.
<code>hue</code>	Grouping variable for color (dodged).
<code>order, hue_order</code>	Level orderings.
<code>orient</code>	"v", "h", or NULL to infer.
<code>color, palette, saturation, fill</code>	Color controls (saturation default 0.75).
<code>inner</code>	"box", "quart", "stick", "point", or NULL.
<code>split</code>	Draw split violins for two hue levels.
<code>width, gap</code>	Box width and gap between dodged boxes.
<code>dodge</code>	How to dodge violins by hue ("auto", TRUE, or FALSE).
<code>linewidth</code>	Outline width.
<code>linecolor</code>	Outline color ("auto" for seaborn's gray).
<code>cut, gridsize, bw_method, bw_adjust</code>	KDE controls.
<code>density_norm</code>	"area", "count", or "width".
<code>common_norm</code>	Normalize densities across all groups together.
<code>legend</code>	Legend control.

<code>inner_kws</code>	Passed to the inner annotation geoms.
<code>.facet_vars</code>	Internal; facet columns forwarded by the figure-level dispatchers (<code>catplot/displot/relplot</code>). Not intended for direct use.
<code>...</code>	Passed to ggplot2::geom_boxplot .

Value

A `reaborn_plot`.

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