Package: varnisch (via r-universe)

August 25, 2024

Title What the Package Does (One Line, Title Case)

Version 0.0.0.9000

Description What the package does (one paragraph).

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URL https://igordot.github.io/varnisch/

Depends ggplot2, R (>= 4.1)

Imports cowplot, FNN, ggsci, methods, RColorBrewer, rlang,
scattermore, tibble

Suggests SeuratObject, SingleCellExperiment, tidyseurat,
tidySingleCellExperiment

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

Repository https://igordot.r-universe.dev

RemoteUrl https://github.com/igordot/varnisch

RemoteRef HEAD

RemoteSha 484a14eaec5142a881d4f11d101a90d9ca53a579

Contents

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flatten_object   *Convert a specialized single-cell data object to a data frame*

Description

Turn a specialized single-cell data object ([Seurat](#) or [SingleCellExperiment](#)) into a more simplified "tidy" data frame. In tidy data, each column is a variable and each observation is a row.

Usage

```
flatten_object(x, features = NULL, assay = "RNA", slot = "data", n_dims = 3)
```

Arguments

x	An object.
features	A vector of features/genes to include in the data frame.
assay	The object assay name for feature abundance.
slot	The object slot name for feature abundance.
n_dims	An integer scalar specifying the maximum number of dimensions to return.

Value

A tibble, which is a data frame with class [tbl_df](#).

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plot_scatter   *Generate a generic scatter plot*

Description

Create a scatter plot to display the relationship between two continuous variables. This is essentially a wrapper for [ggplot2::geom_point()](#).

Usage

```
plot_scatter(
  data,
  x,
  y,
  color_by,
  smooth = FALSE,
  range = c(0.01, 0.99),
  title = "",
  aspect_ratio = 1
)
```

Arguments

data	A data frame.
x	.
y	.
color_by	Column metadata field(s) or feature(s) to color by.
smooth	A logical scalar. Smooth values. Helps to visualize expression patterns in a plot with many overlapping points.
range	A vector of 2 values indicating the minimum and maximum percentiles for the color range. Helps to visualize expression patterns when extreme outliers are present. For example, `c(0, 0.99)` will not expand the color scale above 99th percentile.
title	Plot title.
aspect_ratio	Aspect ratio of the panel.

Value

A ggplot object.

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