Package 'VennItem'

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Title Generate Venn Diagrams with Items Listed in the Sections

Version 1.1.0

Description Generate Venn diagrams from two or three sets, displaying the overlapping items as lists in the appropriate sections. The lists can be split into columns or shortened for large sets and the plot is generated using 'ggplot2' allowing further customisations.

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Encoding UTF-8

RoxygenNote 7.3.3

Imports ggplot2, ggforce, stringr, scales

URL https://github.com/microbialman/VennItem

BugReports https://github.com/microbialman/VennItem/issues

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation no

Author Matthew Jackson-Wood [aut, cre]

Maintainer Matthew Jackson-Wood <mattjackson4@gmail.com>

Repository CRAN

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vennItem   *Create Venn Diagram with Items*

Description

Draws a 2- or 3-set Venn diagram with items listed in regions.

Usage

```
vennItem(
  sets,
  ncol_items = 1,
  max_items_per_region = Inf,
  fill_alpha = 0.25,
  outline_size = 0.8,
  palette = NULL,
  text_size = 3.5,
  font_family = "mono",
  title = NULL,
  legend = "none",
  sort_items = TRUE,
  show_set_labels = TRUE,
  set_label_size = text_size * 1.5,
  set_label_family = font_family,
  set_label_nudge = 0.25,
  set_label_angles = NULL
)
```

Arguments

sets	Named list of character vectors.
ncol_items	Number of columns for items drawn within each section.
max_items_per_region	
	Show top n items only. Set to 0 for classic set size Venn.
fill_alpha	Fill opacity.
outline_size	Circle stroke size.
palette	Vector of custom fill colours.
text_size	Size of item text.
font_family	Font of item text, monospace recommended.
title	Plot title.
legend	Show fill legend.
sort_items	Sort items alphabetically within sections.
show_set_labels	
	Label circles with set names.

```
set_label_size   Size of set names.
set_label_family
                 Font of set names.
set_label_nudge
                 Distance of set names from circle.
set_label_angles
                 Angle of set name from center of plot.
```

Value

A ggplot object.

Examples

```
sets <- list(A = c("apple","banana"), B = c("banana","kiwi"),
 C = c("banana","kiwi","apple","pear"))
vennItem(sets)
big_sets <- list(A = c("apple","banana","durian","lychee",
"grapes","pear","melon"),
B = c("banana","kiwi","satsuma","orange","lemon","lime"),
C = c("banana","kiwi","apple","pear","coconut"))
vennItem(big_sets, ncol_items = 2)
```

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