

Package ‘VennItem’

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Title Generate Venn Diagrams with Items Listed in the Sections

Version 1.0.0

Description Generate Venn diagrams with the items listed in appropriate sections, supporting multiple columns for long lists.

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Encoding UTF-8

RoxxygenNote 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

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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.
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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