

Package ‘ggsegmentedtotalbar’

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Type Package

Title Create a Segmented Total Bar Plot with Custom Annotations and Labels

Version 0.1.0

Description

It provides a better alternative for stacked bar plot by creating a segmented total bar plot with custom annotations and labels. It is useful for visualizing the total of a variable and its segments in a single bar, making it easier to compare the segments and their contributions to the total.

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URL <https://github.com/ozancanozdemir/ggsegmentedtotalbar>

BugReports <https://github.com/ozancanozdemir/ggsegmentedtotalbar/issues>

Depends R (>= 4.0)

Imports ggplot2, grid, forcats

Suggests testthat (>= 3.0.0), devtools, remotes, roxygen2, usethis, knitr, rmarkdown

Encoding UTF-8

Config/testthat/edition 3

RoxygenNote 7.2.3

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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ggsegmentedtotalbar	Create a segmented total bar plot with custom annotations and labels
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Description

This function creates a segmented bar plot where each bar represents a group, divided into segments. Additionally, a background box is drawn behind each bar up to the group's total value. Optionally, total values and segment values can be displayed as labels on the plot.

Usage

```
ggsegmentedtotalbar(  
  df,  
  group,  
  segment,  
  value,  
  total,  
  alpha = 0.3,  
  color = "lightgrey",  
  label = FALSE,  
  label_size = 4,  
  label_color = "black"  
)
```

Arguments

df	A data frame containing the data to be plotted.
group	A string specifying the column name for the grouping variable.
segment	A string specifying the column name for the segmenting variable (used for fill color).
value	A string specifying the column name for the value variable (used for the bar heights).
total	A string specifying the column name for the total variable (used for determining the background box height).
alpha	A numeric value (between 0 and 1) controlling the transparency of the background boxes. Default is 0.3.
color	A string specifying the color of the background boxes. Default is "lightgrey".
label	Logical. If 'TRUE', adds labels showing total values above the boxes and value labels on each segment. Default is 'FALSE'.
label_size	Numeric. Text size for the labels. Default is 4.
label_color	A string specifying the color of the labels. Default is "black".

Details

The group levels are ordered from the group with the highest total value to the one with the lowest.

Value

A ggplot object displaying the segmented bar plot with optional annotations and labels.

Examples

```
df_ex <- data.frame(  
  group = rep(c("West", "East", "Central", "South"), each = 3),  
  segment = rep(c("Consumer", "Corporate", "Home Office"), 4),  
  value = c(364, 232, 143, 357, 204, 131, 254, 158, 91, 196, 122, 74),  
  total = rep(c(739, 692, 503, 392), each = 3)  
)  
ggsegmentedtotalbar(df_ex, group = "group", segment = "segment",  
  value = "value", total = "total", label = TRUE)
```

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