Package: pcir (via r-universe)

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Type Package

Title Potential for Conflict Index in R

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Author Francesca Palmeira [aut, cre]

Maintainer Francesca Palmeira <francesca@alumni.usp.br>

Description An R package to calculate, compare, and visualize the Potential for Conflict Index (PCI).

License MIT

Encoding UTF-8

LazyData true

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URL https://github.com/fblpalmeira/pcir

BugReports https://github.com/fblpalmeira/pcir/issues

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Repository https://ropensci-champions.r-universe.dev

RemoteUrl https://github.com/fblpalmeira/pcir

RemoteRef HEAD

RemoteSha cc61861fad5d96460adc63f661209d36ca0e3579

Contents

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pcir-package   *pcir Package Functions and Setup*

Description

This file contains the basic setup and utility functions for the 'pcir' package. The pcir package is designed for calculating, comparing, and visualizing the Potential for Conflict Index (PCI).

Functions

- 'counting()': Summarize data by calculating counts, percentages, means, and standard deviations. - 'pci()': Compute the Potential for Conflict Index (PCI) from summary data. - 'bubble()': Create a bubble plot to visualize PCI results.

See Also

Useful links:

- <https://github.com/fblpalmeira/pcir>
- Report bugs at <https://github.com/fblpalmeira/pcir/issues>

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bubble   *Create a Bubble Plot for PCI Visualization*

Description

This function generates a bubble plot to visualize the results of the PCI calculation. It shows the mean action acceptability on the y-axis and the PCI value as the size of the bubbles.

Create a bubble plot to visualize PCI results.

Usage

```
bubble(df3)

bubble(df3)
```

Arguments

df3   A data frame generated by the 'pci' function.

Value

A ggplot2 object representing the bubble plot.

A ggplot2 object representing the bubble plot.

Examples

```
df3 <- pci(df2)
p <- bubble(df3)
print(p)
df3 <- pci(df2)
bubble(df3)
```

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counting   *Create a Count Table with Percentages, Mean, and SD*

Description

This function takes a data frame, transforms it by computing counts, percentages, mean, and standard deviation for specified columns. It helps in summarizing the data to understand the distribution and variation.

Create a count table with percentages, mean, and standard deviation.

Usage

```
counting(df1)
```

```
counting(df1)
```

Arguments

df1   A data frame containing the data to be processed.

Value

A data frame with computed statistics, including counts, percentages, mean, and standard deviation.

A data frame with computed statistics.

Examples

```
df1 <- data.frame(A = c(-1, 2, 2, 3, -1), B = c(-1, 2, 3, -1, 2),
C = c(1, 2, -2, 3, -1), D = c(3, 2, 1, -1, -2), E = c(2, 3, 1, -1, -3))
result <- counting(df1)
print(result)
df1 <- data.frame(A = c(-1, 2, 2, 3, -1), B = c(-1, 2, 3, -1, 2),
                  C = c(1, 2, -2, 3, -1), D = c(3, 2, 1, -1, -2), E = c(2, 3, 1, -1, -3))
counting(df1)
```

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pci   *PCI Function*

Description

Calculate the Potential for Conflict Index (PCI).

Calculate the Potential for Conflict Index (PCI).

Usage

```
pci(df2)
```

```
pci(df2)
```

Arguments

df2   A data frame generated by the 'counting' function.

Value

A data frame with the calculated PCI values for each group.

A data frame with the calculated PCI values for each group.

Examples

```
df2 <- counting(df1)
pci(df2)
df2 <- counting(df1)
pci(df2)
```

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