Package: exams.forge.data (via r-universe)

January 11, 2025

Type Package

Title Precomputed Dataset Collection Used in 'exams.forge'

Version 0.1.0

Description The dataset collection supports Pearson correlation and linear regression analysis, with datasets for n=100,200,400,800,1000, where n is the sum of squared values in x. Each dataset has x values summing to zero, with sample sizes (observations in x) ranging from 2 to 10. Additional data frames include variables with German names and measurement levels, and distribution details with R function names, LaTeX names, discreteness, and package origins.

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 7.3.2

Depends R (>= 3.5)

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

RemoteUrl https://github.com/sigbertklinke/exams.forge.data

RemoteRef HEAD

RemoteSha fc697b011bf6db44d88400f0b7c2ff3434008433

Contents

distributions *Distributions*

Description

A data frame with the R function names, LaTeX names, discreteness and package origin of a distribution.

Usage

```
data(distributions)
```

Format

A data frame with columns `r`, `latex`, `discret` and `package`

Examples

```
data(distributions)
distributions
```

skalenniveau *Skalenniveau*

Description

A data frame with the variables and level of measurement type. The names are in German.

Usage

```
data(skalenniveau)
```

Format

A data frame with columns `var`, and `type`.

Examples

```
data(skalenniveau)
head(skalenniveau)
```

sos100 *Precomputed Sum of Squared Data*

Description

Five data matrices with precomputed results from `sumofsquares(n, 10, zerosum=TRUE, maxt=Inf)` for `n=100`, `n=200`, `n=400`,`n=800`, and `n=1000`.

Usage

```
data(sos100)
data(sos200)
data(sos400)
data(sos800)
data(sos1000)

sos200

sos400

sos800

sos1000
```

Format

For each line of a matrix it holds $\sum_{i=1}^{k} x_i^2 = n$ and $\sum_{i=1}^{k} x_i = 0$. It contains all integer solutions up to `k<=10`. `NA` means that this entry is not used.

Examples

```
data(sos100)
head(sos100)
rowSums(sos100^2, na.rm=TRUE)
rowSums(sos100, na.rm=TRUE)
```

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