

Package ‘exams.forge.data’

July 22, 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.

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Encoding UTF-8

LazyData true

RoxygenNote 7.3.2

Depends R (≥ 3.5)

NeedsCompilation no

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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 $k \leq 10$. 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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