

Package ‘samplezoo’

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Title Generate Samples with a Variety of Probability Distributions

Version 1.1.0

Maintainer Nicholas Vietto <nicholasvietto@gmail.com>

Description The 'samplezoo' package streamlines the process of generating samples from various probability distributions, enabling users to quickly create data frames for demonstrations, troubleshooting, or teaching. By prioritizing simplicity and efficiency, 'samplezoo' reduces the need for repetitive code, making it particularly useful for beginners or anyone seeking to save time. The package implements standard methods for generating random samples from probability distributions commonly available in base R, with no specific external references. For more details, visit the package documentation.

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Encoding UTF-8

RoxygenNote 7.3.2

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

Config/testthat/edition 3

VignetteBuilder knitr

URL <https://github.com/nvietto/samplezoo>,
<https://nvietto.github.io/samplezoo/>

BugReports <https://github.com/nvietto/samplezoo/issues>

NeedsCompilation no

Author Nicholas Vietto [aut, cre, cph]

Repository CRAN

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`samplezoo`*Generate Samples with a Variety of Probability Distributions*

Description

Generate Samples with a Variety of Probability Distributions

Usage

```
samplezoo(name)
```

Arguments

`name` A character string specifying the dataset size. The three dataset sizes are:

- `small`: Generates a data frame with 100 samples per distribution.
- `medium`: Generates a data frame with 1,000 samples per distribution.
- `large`: Generates a data frame with 10,000 samples per distribution.

Details

The distributions included in each data frame are:

- `norm`: Normal distribution with mean and standard deviation parameters.
- `norm2`: Slight variation of the normal distribution.
- `norm3`: Another slight variation of the normal distribution.
- `binom`: Binomial (Bernoulli) distribution.
- `neg`: Negative binomial distribution.
- `pois`: Poisson distribution.
- `exp`: Exponential distribution.
- `unif`: Uniform distribution.
- `beta`: Beta distribution.
- `gamma`: Gamma distribution.
- `chisq`: Chi-squared distribution.
- `t_dist`: Student's t-distribution.

Value

A dataset containing variables with common distributions.

Examples

```
small_data <- samplezoo("small")
medium_data <- samplezoo("medium")
large_data <- samplezoo("large")
```

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