

Package ‘AtelieR’

January 27, 2015

Type Package

Title A GTK GUI for teaching basic concepts in statistical inference,
and doing elementary bayesian tests.

Version 0.24

Encoding UTF-8

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Description A collection of statistical simulation and computation tools with a GTK GUI, to help teach statistical concepts and compute probabilities. Two domains are covered: I. Understanding (Central-Limit Theorem and the Normal Distribution, Distribution of a sample mean, Distribution of a sample variance, Probability calculator for common distributions), and II. Elementary Bayesian Statistics (bayesian inference on proportions, contingency tables, means and variances, with informative and noninformative priors).

License GPL (>= 2)

Depends R (>= 2.10), proto, cairoDevice, gWidgetsRGtk2, partitions

NeedsCompilation no

Repository CRAN

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AtelieR-package

A GTK GUI for a set of sampling and bayesian inference tools

Description

AtelieR is a GTK interface for a bunch of statistical workshops. Suited for teaching purposes. It currently contains the following modules:

- construction of the normal distribution (Central Limit Theorem) - effect of a change of variable on the shape of gaussian distributions, - distribution of a sample mean, - effect of df correction on the expectation of the sample variance distribution - distribution of a sample variance - a probability calculator from various distributions, - bayesian test on a proportion, credibility interval, and posterior probability of an hypothesis, - bayesian test on a mean, credibility interval, and posterior probability of an hypothesis, - bayesian test on a variance, credibility interval, and posterior probability of an hypothesis, - bayesian test for comparing several proportions, - bayesian test for the analysis of contingency tables, - bayesian test for comparing several means.

Details

Package: AtelieR
Type: Package
Version: 0.22
Date: 2011-11-10
License: GPL 2.0

Just type `AtelieR()` at the prompt to launch the GUI.

Author(s)

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AtelieR

A function to construct and launch the AtelieR GUI.

Description

A function to construct and launch the AtelieR GUI.

Usage

```
AtelieR()
```

Details

This function is only useful if you accidentally close the GUI and want to reopen it, as it is normally launched upon library loading.

Value

None.

Author(s)

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References

Noel, Y. (2013). *Psychologie statistique avec R*, coll. *Pratique R*, Paris: Springer.

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