

# Package ‘AtelieR’

August 11, 2014

**Type** Package

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

**Version** 0.24

**Encoding** UTF-8

**Date** 2013-09-22

**Author** Yvonnick Noel

**Maintainer** Yvonnick Noel <yvonnick.noel@uhb.fr>

**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

**Date/Publication** 2013-09-22 12:47:09

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AtelieR-package

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

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### 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)

Maintainer: Yvonnick Noel <yvonnick.noel@univ-rennes2.fr>

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AtelieR

*A function to construct and launch the AtelieR GUI.*

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### 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)**

Yvonnick Noel, University of Brittany, Rennes, France.

**References**

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

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