

Package: vibass (via r-universe)

October 7, 2026

Type Package

Title Materials for Introductory Course on Bayesian Learning

Version 1.0.4.9001

Description Practicals, data sets, helper functions and interactive 'Shiny' apps used in the introductory course on Bayesian inference at the Valencia International Bayesian Summer School. Installing 'vibass' installs all the other packages used during the course and downloads all necessary materials for working off line.

License GPL-3

Depends R (>= 4.0)

Imports cli, dplyr, extraDistr, ggplot2, golem, knitr, lme4, magrittr, R2BayesX, rlang, rstudioapi, shiny (>= 1.5), tibble, tidyr,

Suggests spelling, bayesrules, coda, colorspace, cowplot, faraway, htmlwidgets, INLA, ISLR, LaplacesDemon, magick, MASS, MCMCpack, plotly, rmarkdown, pacman, png, spData, stringi

VignetteBuilder knitr

URL <https://vabar.github.io/vibass/>, <https://github.com/VABAR/vibass>

BugReports <https://github.com/VABAR/vibass/issues>

Encoding UTF-8

LazyData true

Additional_repositories <https://inla.r-inla-download.org/R/testing>

Language en-GB

KeepSource no

Config/roxygen2/version 8.0.0

Config/pak/sysreqs cmake make libicu-dev libuv1-dev zlib1g-dev

Repository <https://vabar.r-universe.dev>

Date/Publication 2026-07-09 08:33:36 UTC

RemoteUrl <https://github.com/VABAR/vibass>

RemoteRef HEAD
RemoteSha 6f6302b6347c8b91e34e167369cf050aaeba9c9b

Contents

available_apps	2
summary_table	2
vibass_app	4
Weights	4

Index	6
--------------	----------

available_apps	<i>List available apps in {vibass} package.</i>
----------------	---

Description

App codes that are available for use in [vibass_app()].

Usage

available_apps()

Value

Character vector.
Character vector with available app codes in the package.

Examples

available_apps()

summary_table	<i>Print a standardised summary table</i>
---------------	---

Description

Make a table of several summary statistics with proper formatting.

Usage

```
summary_table(  
  mean,  
  var,  
  quant,  
  ic95 = NULL,  
  prop0 = NULL,  
  prop1 = NULL,  
  label,  
  digits = 2,  
  ...  
)
```

Arguments

mean	Real.
var	Real.
quant	Named numeric vector. Names must be of the form "xx numeric xx". As from the output of the function <code>quantile</code> .
ic95	Numeric vector.
prop0	Real.
prop1	Real.
label	Character. Name of the summarised variable.
digits	Integer. Number of decimal places to be used.
...	Passed to <code>knitr::kable()</code> .

Details

The table includes the mean, variance and standard deviation, a vector of 3 quantiles at 0.05, 0.50 and 0.95, a 95 numeric value to be interpreted as a proportion above 0 and 1. All values are rounded to the specified number of decimal places.

Value

A `knitr_kable` object.

Examples

```
summary_table(mean = 1, var = 1, quant = quantile(1:10, 0:4/4), ic95 = 4:5,  
prop1 = .6, label = "test")
```

vibass_app	<i>VIBASS interactive apps.</i>
------------	---------------------------------

Description

Launches the Shiny interactive applications for the practicals.

Usage

```
vibass_app(x = NULL)
```

Arguments

x	integer or character interpretable as integer. See [available_apps()] for valid options.
---	--

Value

With no arguments, displays a list of available app codes. Otherwise, launches the corresponding Shiny app.

Examples

```
vibass_app()
```

Weights	<i>Weights of children</i>
---------	----------------------------

Description

Data for the VIBASS session on linear models. This is a simulated dataset that includes data about children. The variables in the dataset are:

Usage

```
data("Weights")
```

Format

An object of class "data.frame".

Details

- age. Age (in years).
- vegetables. Measure of vegetables consumption.
- weight. Weight (in kg).
- sex. Girl or Boy.
- height. Height (in cm).
- ethnicity Asian, Black or European.

Source

VIBASS Team.

Examples

```
data(Weights)
summary(Weights)

# ML estimates
lmW <- lm(weight ~ age, data = Weights)
summary(lmW)
```

Index

* **datasets**

Weights, [4](#)

available_apps, [2](#)

summary_table, [2](#)

vibass_app, [4](#)

Weights, [4](#)