Package: vibass (via r-universe)

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Type Package

Title Valencia International Bayesian Summer School

Version 0.0.55

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Description Materials for the introductory course on Bayesian inference. Practicals, data and interactive apps.

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Depends R (>= 3.6)

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

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

VignetteBuilder knitr

URL http://vabar.es/vibass/, https://github.com/VABAR/vibass

Encoding UTF-8

LazyData true

RoxygenNote 7.3.2

Additional_repositories https://inla.r-inla-download.org/R/stable, https://packagemanager.rstudio.com/all/latest

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

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

RemoteRef HEAD

RemoteSha 28af94ba1fe3912add559d83fa1ace5dc1ea96d0

Contents

`available_apps` *List available apps in {vibass} package.*

Description

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

Usage

```
available_apps()
```

Value

Character vector.

Examples

```
available_apps()
```

`summary_table` *Print a standardised summary table*

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 quantile.
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 knitr::kable().

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")
```

---

text_col *Return text in a contrasting colour*

Description

Overcome default colouring schemes (e.g. for packageStartupMessages()) and make sure some text is printed in a contrasting colour depending on the theme (dark or light) in RStudio.

Usage

```
text_col(x)
```

Arguments

x	Character. Text to print.

Details

Uses `cli` for printing white text in dark themes or black text on light themes in RStudio. Borrowed from package `tidyverse` (https://github.com/tidyverse/tidyverse/blob/72af810106d7249c905d6b0f5b8b42dc33e6ac21/R/uti

Examples

```
vibass:::text_col("Hello world")
message("Hello world")
message(vibass:::text_col("Hello world"))
```

---

vibass_app *VIBASS interactive apps.*

Description

Launches the Shiny interactive applications for the practicals.

Usage

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

Arguments

`x`	integer or character interpretable as integer. See [get_available_apps()] for valid options.

Weights *Weights of children*

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)
```

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