

# Package: calms (via r-universe)

June 5, 2026

**Type** Package

**Title** Comprehensive Analysis of Latent Means

**Version** 1.0-3

**Encoding** UTF-8

**Date** 2026-04-06

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**Depends** R (>= 3.5)

**Imports** dplyr,DT,foreign,lavaan,lsr,MatchIt,shiny,shinyjs,stringr,bslib

**Description** Provides a Shiny application to conduct comprehensive analysis of latent means including the examination of group equivalency, propensity score analysis, measurement invariance analysis, and assessment of latent mean differences of equivalent groups with invariant data. Group equivalency and propensity score analyses are implemented using the 'MatchIt' package [Ho et al. (2011) <doi:10.18637/jss.v042.i08>], ensuring robust control for covariates. Structural equation modeling and invariance testing rely heavily on the 'lavaan' package [Rosseel (2012) <doi:10.18637/jss.v048.i02>], providing a flexible and powerful modeling framework. The application also integrates modified functions from Hammack-Brown et al. (2021) <doi:10.1002/hrdq.21452> to support factor ratio testing and the list-and-delete procedure.

**Suggests** knitr,rmarkdown,rgenoud,Matching

**License** GPL (>= 2)

**RoxygenNote** 7.3.2

**VignetteBuilder** knitr

**LazyData** true

**NeedsCompilation** no

**Repository** https://cran.r-universe.dev

**Date/Publication** 2026-04-06 17:09:52 UTC

**RemoteUrl** <https://github.com/cran/calms>

**RemoteRef** HEAD

**RemoteSha** 3f8256872e3c887f827eb3941201337196b7821c

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|           |                                    |
|-----------|------------------------------------|
| run_calms | <i>Launch calms User Interface</i> |
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## Description

run\_calms() loads interactive user interface built using R shiny.

## Usage

```
run_calms()
```

## Details

Start calms

The interactive user interface is to provide an easy way for people who are not comfortable with the R command line system. Includes example data for demonstration.

## Value

Nothing

## Examples

```
if (interactive()){
  run_calms()
}
```

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WosDemoMeta

*Meta file for CALMs Demonstration Dataset*

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**Description**

Meta file for CALMs Demonstration Dataset

**Usage**

WosDemoMeta

**Format**

A data frame with 11 rows and 6 variables:

**itemo** Original item name in dataset

**item** Item name to be used in CALMs

**type** Data type: item, cov, group

**scale** Scale associated with item

**ds** Name of dataset

**missing** Numeric value denoting how missing values are coded

**Source**

Meta file for CALMs demonstration dataset (ISSP Research Group, 2017)

**Examples**

```
data(WosDemoMeta)
head(WosDemoMeta)
```

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