

Package ‘SIAmModules’

March 28, 2025

Type Package

Title Modules for 'ShinyItemAnalysis'

Version 0.1.2

Date 2025-03-28

Description Package including additional modules for interactive 'ShinyItemAnalysis' application for the psychometric analysis of educational tests, psychological assessments, health-related and other types of multi-item measurements, or ratings from multiple raters.

License GPL-3

URL <https://www.ShinyItemAnalysis.org>

Depends R (>= 3.5.0)

Imports cli, difNLR (>= 1.5.1-1), dplyr, DT, forcats, ggplot2, glue, lme4, magrittr, mirt, mirtCAT, plotly, purrr, rlang, scales, shiny, ShinyItemAnalysis (>= 1.5.0), shinyjs, stringr, tibble, tidyr, yaml

Encoding UTF-8

RoxygenNote 7.3.2

Config/ShinyItemAnalysis/module true

NeedsCompilation no

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read_me	<i>How to use this package</i>
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Description

Prints information on how to use the modules included in the package. You may have already seen the same information when loading the package.

Usage

```
read_me()
```

Details

The printed message also displays hyperlinks to each module's help page, where you can find more detailed information, including the citation entry.

Note that if your console does not support hyperlinks, modules titles will be accompanied by a regular R code you may paste into your console to arrive at the same help page.

Value

An object of class `siamod_readme`. Called for side effects.

Examples

```
read_me()
```

sm_cat

Interactive Module for Computerized Adaptive Tests

Description

Interactive illustration of computerized adaptive test (CAT) with the mirtCAT package.

Author(s)

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See Also

Other SIAModules: [sm_dif_c](#), [sm_irr](#)

sm_dif_c

Interactive Module for Differential Item Functioning in Change (DIF-C)

Description

Interactive illustration of Differential Item Functioning in Change (DIF-C).

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See Also

Other SIAModules: [sm_cat](#), [sm_irr](#)

sm_irr

Interactive Module for Range-restricted Reliability

Description

Interactive illustration of range-restricted reliability issue and the difficulties with maximum likelihood estimation, described in more detail in the context of inter-rater reliability in grant proposal review.

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References

Erosheva, E., Martinkova, P., & Lee, C. (2021). When zero may not be zero: A cautionary note on the use of inter-rater reliability in evaluating grant peer review. *Journal of the Royal Statistical Society – Series A*, 184(3), 904–919. [doi:10.1111/rssa.12681](https://doi.org/10.1111/rssa.12681)

See Also

Other SIAModules: [sm_cat](#), [sm_dif_c](#)

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