Package 'lavaangui'

December 5, 2024

```
Version 0.2.1
Description Provides a graphical user interface with an
      integrated diagrammer for latent variables from the 'lavaan' package.
      It offers two core functions: first, lavaangui() launches a web application
      that allows users to specify models by drawing path diagrams, fitting them,
      assessing model fit, and more; second, plot_lavaan() creates
      interactive path diagrams from models specified in 'lavaan'.
      Karch (2024) <doi:10.31234/osf.io/f4ary> contains a tutorial.
URL https://solo-fsw.shinyapps.io/lavaangui/,
      https://github.com/karchjd/lavaangui
BugReports https://github.com/karchjd/lavaangui/issues
License GPL (>= 3)
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Title Graphical User Interface with Integrated 'Diagrammer' for

'Lavaan'

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Description

The lavaangui function launches the lavaangui Shiny application.

Usage

```
lavaangui(fit = NULL)
```

Arguments

fit

A lavaan model, as returned by the lavaan, sem, or cfa functions from the lavaan package. If provided, lavaangui imports the model and data. If left empty, lavaangui starts without importing.

Details

Currently, multiple-group models are not supported. However, you can create an interactive plot of those models using plot_lavaan

Value

nothing

Examples

```
# Without importing lavaan model
lavaangui()

# Importing a lavaan model
library(lavaan)
model <- "
  visual =~ x1 + loadingx2*x2 + x3
  textual =~ x4 + x5 + x6
  speed =~ x7 + x8 + x9
"
fit <- cfa(model, data = HolzingerSwineford1939)
lavaangui(fit)</pre>
```

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Description

The plot_lavaan function creates path diagrams for lavaan model. The created paths diagrams are interactive. That is, their appearance can be customized easily, for example, by dragging around nodes representing variable with the mouse.

Usage

```
plot_lavaan(fit, where = "gadget")
```

Arguments

fit A lavaan model, as returned by the functions lavaan, sem, or cfa from the

lavaan package.

where A character string to specify where the path diagram should be shown. The

default value "gadget" shows it directly in Rstudio. For "browser", it's shown in your default browser. For non-RStudio users, the parameter has no effect, and

the path diagram is always shown in the browser.

Value

nothing

Examples

```
library(lavaan)
model <- '
  visual =~ x1 + loadingx2*x2 + x3
  textual =~ x4 + x5 + x6
  speed =~ x7 + x8 + x9
'
fit <- cfa(model, data = HolzingerSwineford1939)
plot_lavaan(fit)</pre>
```

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