Package 'IalsaSynthesis'

October 1, 2015
Title Synthesizing Information Across Collaborating Research
Description Synthesizes information across collaborating research. Created specifically for Integrative Analysis of Longitudinal Studies of Aging (IALSA).
Version 0.1.8
Date 2015-10-01
Author Will Beasley [aut, cre], Andrey Koval [aut], Integrative Analysis of Longitudinal Studies of Aging (IALSA) [cph]
Maintainer Will Beasley <wibeasley@hotmail.com></wibeasley@hotmail.com>
<pre>URL https://github.com/IALSA/IalsaSynthesis, http://www.ialsa.org/</pre>
BugReports https://github.com/IALSA/IalsaSynthesis/issues
Depends R(>= 3.0.0), stats
Imports testit
Suggests devtools, knitr, readr, testthat (>= 0.9)
License GPL-2
LazyData TRUE
R topics documented:
IalsaSynthesis-package
extract
Index

IalsaSynthesis-package

Synthesizing Information Across Collaborating Research

Description

Synthesizing information across collaborating research. Created for Integrative Analysis of Longitudinal Studies of Aging (IALSA).

Note

The release version will be available through CRAN. The most recent development version is available through GitHub. Please see the installation examples below.

If you're having trouble with the package, please install the development version. If this doesn't solve your problem, please create a new issue, or email Will or Andrey.

Author(s)

William Howard Beasley – Assistant Professor of Research, University of Oklahoma Health Sciences Center, Dept of Pediatrics, Biomedical and Behavioral Methodology Core (BBMC)

Andrey Koval –Post Doc, University of Victoria, Department of Psychology

References

IALSA is funded through an NIH/NIA Program Project Grant (P01AG043362); 2013-2018) to Oregon Health & Science University (Program Directors: Scott Hofer, Andrea Piccinin, Jeffrey Kaye, and Diana Kuh) and previously funded by NIH/NIA (R01AG026453; 2007-2013) and CIHR (103284; 2010-2013).

Examples

```
## Not run:
# Install/update IalsaSynthesis with the release version from CRAN.
install.packages('IalsaSynthesis')

# Install/update IalsaSynthesis with the development version from GitHub
#install.packages('devtools') #Uncomment if `devtools` isn't installed already.
devtools::install_github('IALSA/IalsaSynthesis')

## End(Not run)
```

extract 3

extract	Extract the values within model output files.
	zamene me vennes municipalitymes.

Description

Functions that extract the values within model output files.

Usage

```
extract_single_string(regex, source)
extract_single_float(regex, source)
extract_output_filename(mplus_output)
extract_free_parameter_count(mplus_output)
extract_loglikelihood(mplus_output)
extract_scaling_correction(mplus_output)
extract_aic(mplus_output)
extract_bic(mplus_output)
extract_bic_adjusted(mplus_output)
```

Arguments

regex Regular Expression pattern to capture and extract contents.

source Text to run the regex against.

file path).

Value

A numeric value corresponding to the desired quantity.

Functions

- extract_single_float: Generalizable function to return a single numeric value.
- extract_output_filename: Determine the path of the Mplus output file.
- extract_free_parameter_count: Determine the number of free parameters for the model estimation.
- extract_loglikelihood: Determine the log likelihood for the model estimation.

4 validate

 extract_scaling_correction: Determine the H0 Scaling Correction Factor for the model estimation.

- extract_aic: Determine the AIC for the model estimation.
- extract_bic: Determine the BIC for the model estimation.
- extract_bic_adjusted: Determine the Sample-Size Adjusted BIC for the model estimation.

Author(s)

Will Beasley

Examples

library(IalsaSynthesis) #Load the package into the current R session.

validate

Functions that check the validty of values throughout the workflow.

Description

These functions help identify mistakes in formatting before the create difficult-to-diagnose problems later.

Usage

```
validate_filename_output(filename, path, file_extension_expected = "out",
  underscore_count_expected = 4L)
```

Arguments

filename The name of the file to be validated.

path The location of the file to be validated.

file_extension_expected

The extension of the file. This defaults to "out", which corresponds to Mplus

output.

underscore_count_expected

The number of underscores required in the name (not currently used).

Value

An invisible TRUE value if the filename is valid. Otherwise, an error is thrown.

Author(s)

Will Beasley

validate 5

Examples

```
library(IalsaSynthesis) #Load the package into the current R session.
## Not run:
path <- "./studies/eas"
good_name <- "u1_male_aehplus_muscle_noCog_hand_noCogSpec.out"
validate_filename_output(good_name, path)

bad_name <- "missing_something.outttt"
validate_filename_output(bad_name, path)

## End(Not run)</pre>
```

Index