

# Package ‘IalsaSynthesis’

September 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** 0.1.4

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**URL** <https://github.com/IALSA/IalsaSynthesis>, <http://www.ialsa.org/>

**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

**VignetteBuilder** knitr

## R topics documented:

IalsaSynthesis-package . . . . .	2
extract . . . . .	2
validate . . . . .	3
<b>Index</b>	<b>4</b>

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IalsaSynthesis-package

*Synthesizing Information Across Collaborating Research*


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## 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**

## 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)
```

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extract

*Extract the values within model output files.*


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## Description

Functions that extract the values within model output files.

## Usage

```
extract_output_filename(mplus_output)
```

## Arguments

mplus\_output     Text containing model output.

**Value**

A numeric value corresponding to the desired quantity.

**Author(s)**

Will Beasley

**Examples**

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

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validate	<i>Functions that check the validity of values throughout the workflow.</i>
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**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

**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.outtttt"  
validate_filename_output(bad_name, path)  
  
## End(Not run)
```

# Index

`extract`, [2](#)  
`extract_aic (extract)`, [2](#)  
`extract_bic (extract)`, [2](#)  
`extract_bic_adjusted (extract)`, [2](#)  
`extract_free_parameter_count (extract)`,  
[2](#)  
`extract_loglikelihood (extract)`, [2](#)  
`extract_output_filename (extract)`, [2](#)  
`extract_scaling_correction (extract)`, [2](#)  
  
`IalsaSynthesis-package`, [2](#)  
  
`validate`, [3](#)  
`validate_filename_output (validate)`, [3](#)