# Package 'IalsaSynthesis'

August 29, 2016

**Title** Synthesizing Information Across Collaborating Research

**Description** Synthesizes information across collaborating research. Created specifically for Integrative Analysis of Longitudinal Studies of Aging (IALSA).

**Version** 0.1.6

**Date** 2015-09-02

**Author** Will Beasley [aut, cre],
Andrey Koval [aut],
Integrative Analysis of Longitudinal Studies of Aging (IALSA) [cph]

**Maintainer** Will Beasley <wibeasley@hotmail.com>

**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

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2015-09-02 16:34:33

## R topics documented:

1

---

`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

### 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                           *Extract the values within model output files.*

---

### 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.

---

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

## 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