

Package: eprimeParser (via r-universe)

September 11, 2024

Title LCBC E-prime data processing pipeline

Version 0.0.1.0

Description This package contains functions to process the eprime data for LCBC. The functions are adaptations of scripts James Michael Roe made, that Athanasia Monika Mowinckel converted.

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Encoding UTF-8

Depends R (>= 2.10)

LazyData true

Imports readr, rprime, lubridate, dplyr, magrittr, purrr, crayon, rio, gcalendr

RoxygenNote 6.1.1

Suggests testthat (>= 2.1.0), covr

Remotes andrie/gcalendr

URL <https://github.com/LCBC-UiO/eprimeParser>

BugReports <https://github.com/LCBC-UiO/eprimeParser/issues>

Repository <https://lcbc-uio.r-universe.dev>

RemoteUrl <https://github.com/LCBC-UiO/eprimeParser>

RemoteRef HEAD

RemoteSha 0ceb471b16bb4d7450af4dfec00b38a97a9c6359

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eprime_find	<i>Find eprime files</i>
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Description

Find eprime files

Usage

```
eprime_find(in_dir, task, paths, logs, quietly = FALSE)
```

Arguments

in_dir	Directory with E-prime files
task	Which task, one of ["Antisaccade", "n-back", "Attention"]
paths	list of paths from [eprime_setup_dirs]
logs	list of paths from [eprime_setup_logs]
quietly	logical if log text should be printed in the console

eprime_parse	<i>Parse LCBC E-prime files</i>
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Description

Will look for new eprime files, and start logging information about them.

Usage

```
eprime_parse(in_dir = "/Users/athanasm/LCBC/Projects/Cross_projects/computer_tasks",
  out_dir = "/Users/athanasm/Desktop/tasks", task = "n-back",
  MOAS = "/Users/athanasm/LCBC/Projects/Cross_projects/MOAS/Data/MOAS.RData",
  quietly = FALSE)
```

Arguments

in_dir	Directory with E-prime files
out_dir	directory to output the data to
task	Which task, one of ["Antisaccade", "n-back", "Attention"]
MOAS	Either string with path to, or as data.frame, the MOAS dataframe
quietly	logical if log text should be printed in the console

eprime_process_all *Process all files*

Description

Calls eprime_process_file and runs through each file listed in the provided data.frame to process.

Usage

```
eprime_process_all(ff_df, in_dir, task, MOAS, paths, logs,
  quietly = FALSE)
```

Arguments

ff_df	data frame of files to process from status.log
in_dir	Directory with E-prime files
task	Which task, one of ["Antisaccade", "n-back", "Attention"]
MOAS	Either string with path to, or as data.frame, the MOAS dataframe
paths	list of paths from [eprime_setup_dirs]
logs	list of paths from [eprime_setup_logs]
quietly	logical if log text should be printed in the console

eprime_process_file *Process an E-prime file for LCBC*

Description

Runs the processing of E-prime files for LCBC. This will check the existance of files, any previous logs for duplicated entries etc.

Usage

```
eprime_process_file(efile_path, in_dir, task, MOAS, paths, logs,
  start_message = "Starting processing for", quietly = FALSE,
  return_options = FALSE)
```

Arguments

eprime_path	path to E-prime txt file
in_dir	Directory with E-prime files
task	Which task, one of ["Antisaccade", "n-back", "Attention"]
MOAS	Either string with path to, or as data.frame, the MOAS dataframe
paths	list of paths from [eprime_setup_dirs]
logs	list of paths from [eprime_setup_logs]
start_message	string message to add to log for this action
quietly	logical if log text should be printed in the console
return_options	logical if options generated for the file should be returned to user

eprime_resolve_all *Attempt manual resolve on all files that are not completed*

Description

Will check the status.log for files that need resolution, and attempt to resolve their issues. This included attempting to process the files automatically before prompting for manual input to resolve the issues that are stopping the file from being processed.

Usage

```
eprime_resolve_all(in_dir, out_dir, task, MOAS,
  gmail_user = "athanasiamo@gmail.com", .choice = NULL)
```

Arguments

in_dir	Directory with E-prime files
out_dir	directory to output the data to
task	Which task, one of ["Antisaccade", "n-back", "Attention"]
MOAS	Either string with path to, or as data.frame, the MOAS dataframe
gmail_user	Email with access to the LCBC test calendar on google
.choice	never to be set by the user. Created for unit testing only

eprime_resolve_file *Attempt manual resolve on a file that is not completed*

Description

Will attempt to process the file automatically before prompting for manual input to resolve the issues that are stopping the file from being processed.

Usage

```
eprime_resolve_file(files_date_time, file_date, in_dir, task, paths, logs,
                    MOAS, gmail_user = NULL, quietly = FALSE, .choice = NULL)
```

Arguments

files_date_time	The unique file name for file that needs processing (found in status.log)
file_date	the date of the session for the file that needs processing (found in status.log)
in_dir	Directory with E-prime files
task	Which task, one of ["Antisaccade", "n-back", "Attention"]
paths	list of paths from [eprime_setup_dirs]
logs	list of paths from [eprime_setup_logs]
MOAS	Either string with path to, or as data.frame, the MOAS dataframe
gmail_user	Email with access to the LCBC test calendar on google
quietly	logical if log text should be printed in the console
.choice	never to be set by the user. Created for unit testing only

eprime_setup_files *Setup the raw files in the system*

Description

Initiates logs for each new file, and copies the raw data into the folder structure

Usage

```
eprime_setup_files(ff_df, in_dir, task, logs, paths, quietly = FALSE)
```

Arguments

ff_df	data frame of files to process from status.log
in_dir	Directory with E-prime files
task	Which task, one of ["Antisaccade", "n-back", "Attention"]
logs	list of paths from [eprime_setup_logs]
paths	list of paths from [eprime_setup_dirs]
quietly	logical if log text should be printed in the console

eprime_setup_logs *Set up logs for eprime parser*

Description

Initiates and creates paths to necessary log-files for the E-prime parser

Usage

```
eprime_setup_logs(out_dir, task, quietly = FALSE)
```

Arguments

out_dir	directory to output the data to
task	Which task, one of ["Antisaccade", "n-back", "Attention"]
quietly	logical if log text should be printed in the console

Value

list of log paths

eprime_setup_paths *Set up directories for E-prime parsing*

Description

Sets up the necessary folder structure, if it does not already exists, for the eprime parser to work

Usage

```
eprime_setup_paths(out_dir, task, logs, quietly)
```

Arguments

out_dir	directory to output the data to
task	Which task, one of ["Antisaccade", "n-back", "Attention"]
logs	list of paths from [eprime_setup_logs]
quietly	logical if log text should be printed in the console

Value

list of paths

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