Package 'childeswordfreq'

November 15, 2025

Type Package

```
Title Word and Phrase Frequency Tools for CHILDES
Version 0.2.0
Description Tools for extracting word and phrase frequencies from the Child Language Data Ex-
     change System (CHILDES)
     database via the 'childesr' API. Supports type-level word counts,
     token-mode searches with simple wildcard patterns and part-of-speech
     filters, optional stemming, and Zipf-scaled frequencies. Provides
     normalization per number of tokens or utterances, speaker-role
     breakdowns, dataset summaries, and export to Excel workbooks for
     reproducible child language research.
     The CHILDES database is maintained at <a href="https://talkbank.org/childes/">https://talkbank.org/childes/</a>.
License MIT + file LICENSE
URL https://github.com/n-albudoor/childeswordfreq
BugReports https://github.com/n-albudoor/childeswordfreq/issues
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cwf_cache_disable

Disable caching

Description

Disable caching

Usage

```
cwf_cache_disable()
```

cwf_cache_enable

Enable on-disk caching of CHILDES queries

Description

Enable on-disk caching of CHILDES queries

Usage

```
cwf_cache_enable(cache_dir = NULL)
```

Arguments

cache_dir

Directory for cached results; defaults to user cache dir.

cwf_cache_enabled

Return TRUE if caching is enabled

Description

Return TRUE if caching is enabled

Usage

```
cwf_cache_enabled()
```

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phrase_counts

Count phrase matches in CHILDES utterances (experimental)

Description

Matches surface phrases in utterance text and outputs counts, plus dataset summary and run metadata. Supports simple wildcards in phrases: * (any chars), ? (one char). Normalization is per number of utterances.

Usage

```
phrase_counts(
  phrases,
  collection = NULL,
  language = NULL,
  corpus = NULL,
  age = NULL,
  sex = NULL,
  role = NULL,
  role_exclude = NULL,
 wildcard = FALSE,
  ignore_case = TRUE,
  normalize = FALSE,
  per_utts = 10000L,
  db_version = "current",
  cache = FALSE,
  cache_dir = NULL,
  output_file = NULL
)
```

Arguments

```
phrases
                  Character vector of phrases or patterns.
collection, language, corpus, age, sex, role, role_exclude
                  CHILDES filters.
                  Logical; enable * and ? in phrases.
wildcard
                  Logical; case-insensitive matching.
ignore_case
normalize
                  Logical; if TRUE, add per-N utterance rates.
per_utts
                  Integer; denominator for utterance rates (default 10000).
                  CHILDES DB version (recorded).
db_version
cache
                  Logical; cache CHILDES queries on disk.
cache_dir
                  Optional cache directory.
output_file
                  Optional .xlsx path; if NULL, returns a tibble.
```

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Details

Tier targeting is not applied in phrase mode. Phrases are matched in the main utterance text. For tier-constrained contexts around words, use contexts_for(..., mode = "word", tier = "mor").

Value

If output_file is NULL, returns a tibble of phrase counts; otherwise writes an Excel file and returns the file path (invisibly).

word_counts

Get word counts by speaker role

Description

Reads a CSV with a word column or an in-memory character vector and writes an Excel file with Word_Frequencies, Dataset_Summary, File_Speaker_Summary, and Run_Metadata. If no word list is provided, all types in the selected slice are counted (FREQ-style "all words" mode).

Usage

```
word_counts(
  word_list_file = NULL,
  output_file,
  words = NULL,
  collection = NULL,
  language = NULL.
  corpus = NULL,
  age = NULL,
  sex = NULL,
  role = NULL,
  role_exclude = NULL,
  wildcard = FALSE,
  collapse = c("none", "stem"),
  part_of_speech = NULL,
  tier = c("main", "mor"),
  normalize = FALSE,
  per = 1000L,
  zipf = FALSE,
  include_patterns = NULL,
  exclude_patterns = NULL,
  sort_by = c("word", "frequency"),
  min_count = 0L,
  freq_ignore_special = TRUE,
  db_version = "current",
  cache = FALSE,
  cache_dir = NULL,
)
```

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Arguments

word_list_file Optional path to a CSV file with a column named word. If NULL and words is

also NULL, all types in the slice are counted.

output_file Path to the output .xlsx file.

words Optional character vector of target words/patterns. Ignored if word_list_file

is provided. If both are NULL, all types are counted.

collection Optional CHILDES filter.
language Optional CHILDES filter.
corpus Optional CHILDES filter.

age Optional numeric: single value or c(min, max) in months.

sex Optional: "male" and/or "female".

role Optional character vector of roles to include.
role_exclude Optional character vector of roles to exclude.

wildcard Logical; treat "%" as any number of characters and "_" as one character (token

mode).

collapse Either "none" or "stem". Using "stem" triggers token mode.

 $\verb|part_of_speech| Optional POS filter, e.g., c("n", "v") (token mode).$

tier Which tier to count from: "main" or "mor".
normalize Logical; if TRUE, add per-N rate columns.

per Integer denominator for rates (for example 1000 for per-1k).

zipf Logical; if TRUE, also add Zipf columns (log10 per-billion).

include_patterns

Optional character vector of CHILDES-style patterns, using "%" and "_" to re-

strict output to matching words (FREQ-style +s).

exclude_patterns

Optional character vector of CHILDES-style patterns to drop from the output.

sort_by Final sort order: "word" (alphabetical) or "frequency" (descending Total).

min_count Integer; drop rows with Total < min_count (after counting).

freq_ignore_special

Logical; if TRUE, drop "xxx", "www", and any word starting with 0, &, +, -, or

(FREQ default ignore rules).

db_version CHILDES database version label to record in metadata.

cache Logical; if TRUE, cache CHILDES queries on disk.

cache_dir Optional cache directory when cache = TRUE.

... Reserved for future extensions; currently unused.

Details

Uses exact type counts by default; switches to token mode when wildcards, stems, or POS filters are requested. Optional MOR-only tier.

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Value

Invisibly returns output_file after writing the workbook.

Examples

```
## Not run:
# Minimal example (not run during R CMD check)
tmp_csv <- tempfile(fileext = ".csv")</pre>
write.csv(data.frame(word = c("the","go")), tmp_csv, row.names = FALSE)
out_file <- tempfile(fileext = ".xlsx")</pre>
word_counts(
  word_list_file = tmp_csv,
  output_file = out_file,
              = "eng",
 language
              = "Brown",
 corpus
                = c(24, 26)
  age
)
# All-words mode (no word list; counts every type in the slice)
out_all <- tempfile(fileext = ".xlsx")</pre>
word_counts(
  word_list_file = NULL,
           = NULL,
  words
  output_file = out_all,
  language = "eng",
              = "Brown",
  corpus
  age
              = c(24, 26)
)
## End(Not run)
```

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