Package 'childesr'

January 27, 2022

Type Package

Title Accessing the 'CHILDES' Database

Description Tools for connecting to 'CHILDES', an open repository for transcripts of parent-child interaction. For more information on the underlying data, see <https://langcog.github.io/childes-db-website/>.

Version 0.2.3

Depends R (>= 4.0)

License GPL-3

URL <https://github.com/langcog/childesr>

BugReports <https://github.com/langcog/childesr/issues>

Encoding UTF-8

Imports DBI (>= 1.1), dbplyr (>= 2.1), dplyr (>= 1.0), jsonlite (>= 1.7), magrittr (>= 2.0), purrr (>= 0.3), RMySQL (>= 0.10.21)

Suggests knitr, rmarkdown, curl

RoxygenNote 7.1.1

VignetteBuilder knitr

NeedsCompilation no

Author Mika Braginsky [aut, cre],
Alessandro Sanchez [aut, ctb],
Daniel Yurovsky [aut],
Kyle MacDonald [ctb],
Stephan Meylan [ctb],
Jessica Mankewitz [ctb]

Maintainer Mika Braginsky <mika.br@gmail.com>

Repository CRAN

Date/Publication 2022-01-27 00:00:02 UTC

R topics documented:

---

clear_connections   *Clear all MySQL connections*

Description

Clear all MySQL connections

Usage

```
clear_connections()
```

---

connect_to_childes   *Connect to CHILDES*

Description

Connect to CHILDES

Usage

```
connect_to_childes(db_version = "current", db_args = NULL)
```

Arguments

db_version	String of the name of database version to use
db_args	List with host, user, and password defined

Value

con A DBIConnection object for the CHILDES database

Examples

```
## Not run:
con <- connect_to_childes(db_version = "current", db_args = NULL)
DBI::dbDisconnect(con)

## End(Not run)
```

---

get_collections   *Get collections*

Description

Get collections

Usage

```
get_collections(connection = NULL, db_version = "current", db_args = NULL)
```

Arguments

connection	A connection to the CHILDES database
db_version	String of the name of database version to use
db_args	List with host, user, and password defined

Value

A 'tbl' of Collection data. If 'connection' is supplied, the result remains a remote query, otherwise it is retrieved into a local tibble.

Examples

```
## Not run:
get_collections()

## End(Not run)
```

---

get_content   *Get content*

Description

Get content

Usage

```
get_content(
  content_type,
  collection = NULL,
  language = NULL,
  corpus = NULL,
  role = NULL,
  role_exclude = NULL,
  age = NULL,
  sex = NULL,
  target_child = NULL,
  token = NULL,
  stem = NULL,
  part_of_speech = NULL,
  connection
)
```

Arguments

content_type	One of "token" or "utterance"
collection	A character vector of one or more names of collections
language	A character vector of one or more languages
corpus	A character vector of one or more names of corpora
role	A character vector of one or more roles to include
role_exclude	A character vector of one or more roles to exclude
age	A numeric vector of an single age value or a min age value and max age value (inclusive) in months. For a single age value, participants are returned for which that age is within their age range; for two ages, participants are returned for whose age overlaps with the interval between those two ages.
sex	A character vector of values "male" and/or "female"
target_child	A character vector of one or more names of children
token	A character vector of one or more token patterns ('%' matches any number of wildcard characters, '_' matches exactly one wildcard character)
stem	A character vector of one or more stems
part_of_speech	A character vector of one or more parts of speech
connection	A connection to the CHILDES database

---

get_contexts *Get the utterances surrounding a token(s)*

Description

Get the utterances surrounding a token(s)

Usage

```
get_contexts(
  collection = NULL,
  language = NULL,
  corpus = NULL,
  role = NULL,
  role_exclude = NULL,
  age = NULL,
  sex = NULL,
  target_child = NULL,
  token,
  window = c(0, 0),
  remove_duplicates = TRUE,
  connection = NULL,
  db_version = "current",
  db_args = NULL
)
```

Arguments

collection	A character vector of one or more names of collections
language	A character vector of one or more languages
corpus	A character vector of one or more names of corpora
role	A character vector of one or more roles to include
role_exclude	A character vector of one or more roles to exclude
age	A numeric vector of an single age value or a min age value and max age value (inclusive) in months. For a single age value, participants are returned for which that age is within their age range; for two ages, participants are returned for whose age overlaps with the interval between those two ages.
sex	A character vector of values "male" and/or "female"
target_child	A character vector of one or more names of children
token	A character vector of one or more token patterns ('%' matches any number of wildcard characters, '_' matches exactly one wildcard character)
window	A length 2 numeric vector of how many utterances before and after each utterance containing the target token to retrieve

remove_duplicates

A boolean indicating whether to remove duplicate utterances from the results

connection   A connection to the CHILDES database

db_version   String of the name of database version to use

db_args   List with host, user, and password defined

Value

A 'tbl' of Utterance data, filtered down by supplied arguments.

Examples

```
## Not run:
get_contexts(target_child = "Shem", token = "dog")

## End(Not run)
```

---

get_corpora   *Get corpora*

Description

Get corpora

Usage

```
get_corpora(connection = NULL, db_version = "current", db_args = NULL)
```

Arguments

connection   A connection to the CHILDES database

db_version   String of the name of database version to use

db_args   List with host, user, and password defined

Value

A 'tbl' of Corpus data. If 'connection' is supplied, the result remains a remote query, otherwise it is retrieved into a local tibble.

Examples

```
## Not run:
get_corpora()

## End(Not run)
```

---

get_db_info   *Get information on database connection options*

Description

Get information on database connection options

Usage

```
get_db_info()
```

Value

List of database info: host name, current version, supported versions, historical versions, username, password

Examples

```
## Not run:
get_db_info()

## End(Not run)
```

---

get_participants   *Get participants*

Description

Get participants

Usage

```
get_participants(
  collection = NULL,
  corpus = NULL,
  target_child = NULL,
  role = NULL,
  role_exclude = NULL,
  age = NULL,
  sex = NULL,
  connection = NULL,
  db_version = "current",
  db_args = NULL
)
```

Arguments

collection	A character vector of one or more names of collections
corpus	A character vector of one or more names of corpora
target_child	A character vector of one or more names of children
role	A character vector of one or more roles to include
role_exclude	A character vector of one or more roles to exclude
age	A numeric vector of an single age value or a min age value and max age value (inclusive) in months. For a single age value, participants are returned for which that age is within their age range; for two ages, participants are returned for whose age overlaps with the interval between those two ages.
sex	A character vector of values "male" and/or "female"
connection	A connection to the CHILDES database
db_version	String of the name of database version to use
db_args	List with host, user, and password defined

Value

A 'tbl' of Participant data, filtered down by supplied arguments. If 'connection' is supplied, the result remains a remote query, otherwise it is retrieved into a local tibble.

Examples

```
## Not run:
get_participants()

## End(Not run)
```

---

get_speaker_statistics

Get speaker statistics

Description

Get speaker statistics

Usage

```
get_speaker_statistics(
  collection = NULL,
  corpus = NULL,
  target_child = NULL,
  role = NULL,
  role_exclude = NULL,
  age = NULL,
```

```
    sex = NULL,
    connection = NULL,
    db_version = "current",
    db_args = NULL
)
```

Arguments

collection	A character vector of one or more names of collections
corpus	A character vector of one or more names of corpora
target_child	A character vector of one or more names of children
role	A character vector of one or more roles to include
role_exclude	A character vector of one or more roles to exclude
age	A numeric vector of an single age value or a min age value and max age value (inclusive) in months. For a single age value, participants are returned for which that age is within their age range; for two ages, participants are returned for whose age overlaps with the interval between those two ages.
sex	A character vector of values "male" and/or "female"
connection	A connection to the CHILDES database
db_version	String of the name of database version to use
db_args	List with host, user, and password defined

Value

A 'tbl' of Speaker statistics, filtered down by supplied arguments. If 'connection' is supplied, the result remains a remote query, otherwise it is retrieved into a local tibble.

Examples

```
## Not run:
get_speaker_statistics()

## End(Not run)
```

---

get_sql_query	*Run a SQL Query script on the CHILDES database*

Description

Run a SQL Query script on the CHILDES database

Usage

```
get_sql_query(
  sql_query_string,
  connection = NULL,
  db_version = "current",
  db_args = NULL
)
```

Arguments

sql_query_string

               A valid sql query string character

connection   A connection to the CHILDES database

db_version   String of the name of database version to use

db_args   List with host, user, and password defined

Value

The database after calling the supplied SQL query

Examples

```
## Not run:
get_sql_query("SELECT * FROM collection")

## End(Not run)
```

---

get_table   *Get table*

Description

Get table

Usage

```
get_table(connection, name)
```

Arguments

connection   A connection to the CHILDES database

name   String of a table name

Value

A 'tbl'

---

get_tokens   *Get tokens*

Description

Get tokens

Usage

```
get_tokens(
  collection = NULL,
  language = NULL,
  corpus = NULL,
  target_child = NULL,
  role = NULL,
  role_exclude = NULL,
  age = NULL,
  sex = NULL,
  token,
  stem = NULL,
  part_of_speech = NULL,
  replace = TRUE,
  connection = NULL,
  db_version = "current",
  db_args = NULL
)
```

Arguments

collection	A character vector of one or more names of collections
language	A character vector of one or more languages
corpus	A character vector of one or more names of corpora
target_child	A character vector of one or more names of children
role	A character vector of one or more roles to include
role_exclude	A character vector of one or more roles to exclude
age	A numeric vector of an single age value or a min age value and max age value (inclusive) in months. For a single age value, participants are returned for which that age is within their age range; for two ages, participants are returned for whose age overlaps with the interval between those two ages.
sex	A character vector of values "male" and/or "female"
token	A character vector of one or more token patterns ('%' matches any number of wildcard characters, '_' matches exactly one wildcard character)
stem	A character vector of one or more stems
part_of_speech	A character vector of one or more parts of speech

replace	A boolean indicating whether to replace "gloss" with "replacement" (i.e. phonologically assimilated form), when available (defaults to TRUE)
connection	A connection to the CHILDES database
db_version	String of the name of database version to use
db_args	List with host, user, and password defined

Value

A 'tbl' of Token data, filtered down by supplied arguments. If 'connection' is supplied, the result remains a remote query, otherwise it is retrieved into a local tibble.

Examples

```
## Not run:
get_tokens(token = "dog")

## End(Not run)
```

---

get_transcripts   *Get transcripts*

Description

Get transcripts

Usage

```
get_transcripts(
  collection = NULL,
  corpus = NULL,
  target_child = NULL,
  connection = NULL,
  db_version = "current",
  db_args = NULL
)
```

Arguments

collection	A character vector of one or more names of collections
corpus	A character vector of one or more names of corpora
target_child	A character vector of one or more names of children
connection	A connection to the CHILDES database
db_version	String of the name of database version to use
db_args	List with host, user, and password defined

Value

A 'tbl' of Transcript data, filtered down by supplied arguments. If 'connection' is supplied, the result remains a remote query, otherwise it is retrieved into a local tibble.

Examples

```
## Not run:
get_transcripts()

## End(Not run)
```

```
get_types                       Get types
```

Description

Get types

Usage

```
get_types(
  collection = NULL,
  language = NULL,
  corpus = NULL,
  role = NULL,
  role_exclude = NULL,
  age = NULL,
  sex = NULL,
  target_child = NULL,
  type = NULL,
  connection = NULL,
  db_version = "current",
  db_args = NULL
)
```

Arguments

collection	A character vector of one or more names of collections
language	A character vector of one or more languages
corpus	A character vector of one or more names of corpora
role	A character vector of one or more roles to include
role_exclude	A character vector of one or more roles to exclude
age	A numeric vector of an single age value or a min age value and max age value (inclusive) in months. For a single age value, participants are returned for which that age is within their age range; for two ages, participants are returned for whose age overlaps with the interval between those two ages.

sex	A character vector of values "male" and/or "female"
target_child	A character vector of one or more names of children
type	A character vector of one or more type patterns ('number of wildcard characters, '_' matches exactly one wildcard character)
connection	A connection to the CHILDES database
db_version	String of the name of database version to use
db_args	List with host, user, and password defined

Value

A 'tbl' of Type data, filtered down by supplied arguments. If 'connection' is supplied, the result remains a remote query, otherwise it is retrieved into a local tibble.

Examples

```
## Not run:
get_types()

## End(Not run)
```

---

get_utterances   *Get utterances*

Description

Get utterances

Usage

```
get_utterances(
  collection = NULL,
  language = NULL,
  corpus = NULL,
  role = NULL,
  role_exclude = NULL,
  age = NULL,
  sex = NULL,
  target_child = NULL,
  connection = NULL,
  db_version = "current",
  db_args = NULL
)
```

Arguments

collection	A character vector of one or more names of collections
language	A character vector of one or more languages
corpus	A character vector of one or more names of corpora
role	A character vector of one or more roles to include
role_exclude	A character vector of one or more roles to exclude
age	A numeric vector of an single age value or a min age value and max age value (inclusive) in months. For a single age value, participants are returned for which that age is within their age range; for two ages, participants are returned for whose age overlaps with the interval between those two ages.
sex	A character vector of values "male" and/or "female"
target_child	A character vector of one or more names of children
connection	A connection to the CHILDES database
db_version	String of the name of database version to use
db_args	List with host, user, and password defined

Value

A 'tbl' of Utterance data, filtered down by supplied arguments. If 'connection' is supplied, the result remains a remote query, otherwise it is retrieved into a local tibble.

Examples

```
## Not run:
get_utterances(target_child = "Shem")

## End(Not run)
```

Index