

Package ‘chilDesr’

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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 <<http://chilDes-db.stanford.edu>>.

Version 0.1.2

Depends R (>= 3.4.0)

License GPL-3

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

BugReports <http://github.com/langcog/chilDesr/issues>

Encoding UTF-8

LazyData true

Imports DBI (>= 0.8), dbplyr (>= 1.2.1), dplyr (>= 0.7.4), jsonlite (>= 1.5), magrittr (>= 1.5), purrr (>= 0.2.4), RMySQL (>= 0.10.14)

Suggests knitr, rmarkdown, curl

RoxygenNote 6.1.1

VignetteBuilder knitr

NeedsCompilation no

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check_connection	<i>Check if connecting to childes db is possible</i>
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Description

Check if connecting to childes db is possible

Usage

```
check_connection(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

Logical indicating whether a connection was successfully formed

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

```
con <- connect_to_childes(db_version = "current", db_args = NULL)  
DBI::dbDisconnect(con)
```

get_collections	<i>Get collections</i>
-----------------	------------------------

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

```
get_collections()
```

get_content	<i>Get content</i>
-------------	--------------------

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 age or a min age (inclusive) and max age (exclusive) in months
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 age or a min age (inclusive) and max age (exclusive) in months

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

```
get_contexts(target_child = "Shem", token = "dog")
```

get_corpora	<i>Get corpora</i>
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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

```
get_corpora()
```

get_database_version *Get database version*

Description

Get database version

Usage

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

Arguments

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

Value

The database version as a string

Examples

```
get_database_version()
```

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

```
get_db_info()
```

get_participants	<i>Get participants</i>
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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 age or a min age (inclusive) and max age (exclusive) in months
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

```
get_participants()
```

```
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 age or a min age (inclusive) and max age (exclusive) in months
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

```
get_speaker_statistics()
```

get_table	<i>Get table</i>
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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	<i>Get tokens</i>
------------	-------------------

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 age or a min age (inclusive) and max age (exclusive) in months
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

```
get_tokens(token = "dog")
```

get_transcripts	<i>Get transcripts</i>
-----------------	------------------------

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

```
get_transcripts()
```

get_types	<i>Get types</i>
-----------	------------------

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 age or a min age (inclusive) and max age (exclusive) in months
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

```
get_types()
```

get_utterances	<i>Get utterances</i>
----------------	-----------------------

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 age or a min age (inclusive) and max age (exclusive) in months
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

```
get_utterances(target_child = "Shem")
```

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