

Package ‘rtematres’

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Title The rtematres API package

Description Exploit controlled vocabularies organized on tematres servers.

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URL <https://github.com/cpfaff/rtematres>

Collate 'rtematres.api.base.R' 'rtematres.api.convenience.R'
'rtematres.api.helpers.R' 'rtematres.options.R' 'rtematres-package.R' 'rtematres.helpers.R' 'zzz.R'

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rtematres	<i>rtematres A package to exploit controlled vocabularies from tematres servers</i>
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Description

rtematres A package to exploit controlled vocabularies from tematres servers

rtematres.api	<i>Basic tematres server api</i>
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Description

Basic tematres server api

Usage

```
rtematres.api(task = "availableTasks", argument)
```

Arguments

task	The api task you like to execute. Use the the "availableTasks" to get an overview about the base api. It returns a data frame with descriptions and the arguments for the tasks.
argument	Is the argument for the api task. You find the information about the arguments when you call the task "availableTasks".

Value

The function returns either a dataframe for information or a list of keywords and ids

Examples

```
## Not run:
rtematres.api(task = "availableTasks")
rtematres.api(task = "fetchVocabularyData")
rtematres.api(task = "fetchTopTerms")
rtematres.api(task = "search", argument = "measurement")
rtematres.api(task = "letter", argument = "t")
rtematres.api(task = "fetchTerm", argument = 12)
rtematres.api(task = "fetchDown", argument = 4 )
rtematres.api(task = "fetchUp", argument = 4)
rtematres.api(task = "fetchRelated", argument = 4)
rtematres.api(task = "fetchAlt", argument = 12 )
rtematres.api(task = "fetchCode", argument = "tree")
rtematres.api(task = "fetchNotes", argument = 5 )
rtematres.api(task = "fetchDirectTerms", argument = 12)
```

```

rtematres.api(task = "fetchURI", argument = 12)
rtematres.api(task = "fetchTargetTerms", argument = 12 )
rtematres.api(task = "fetchSourceTerm", argument = 12)
rtematres.api(task = "fetchTerms", argument = '12,13' )
rtematres.api(task = "fetchRelatedTerms", argument = '12,13' )
rtematres.api(task = "fetchSimilar", argument = 12)
rtematres.api(task = "fetchLast")
rtematres.api.conversion.keyword_id(given = "Measurement")
rtematres.api.conversion.keyword_id(given = 8)

## End(Not run)

```

```
rtematres.api.conversion.term_id
```

An tematres api helper that converts ids to strings and vise versa

Description

As the tematres api accepts ids of terms only on most of its tasks this is a small helper that converts them into each other. It has two function names tha you can use depending on what you are converting. But both function names do the same so they can be exchanged. (rtematres.api.conversion.[term_id/id_term])

Usage

```
rtematres.api.conversion.term_id(given, warn = T)
```

Arguments

given	Either a term or an integer id for a term
warn	Give a waring when the term/id is not found. Defaults to TRUE.

Value

Either a string or id

```
rtematres.api.define
```

A tematres base api based function to retrieve definitions

Description

It retrieves the definition of a term given the case it has been described in the vocuabulary on the temates server.

Usage

```
rtematres.api.define(term)
```

Arguments

term It takes a term that you are searching the definition for

Value

Either a string or id

rtematres.api.do *A convenient wrapper to all tasks of the base api.*

Description

As some of the task of the base api only take ids the wrapper does a conversion from a term to the id to communicate with the server. So you can use terms in all taks with this function.

Usage

```
rtematres.api.do(task = "availableTasks", term)
```

Arguments

task The api task you like to execute. Use the the "availableTasks" to get an overview about the base api. It returns a data frame with descriptions and the arguments for the tasks.

term Is the term(s) you like to execute the task for.

Value

The function returns either a dataframe for information or a list of keywords and ids

Examples

```
## Not run:
rtematres.api.do(task = "availableTasks")
rtematres.api.do(task = "fetchVocabularyData")
rtematres.api.do(task = "suggest", term = "measurement")
rtematres.api.do(task = "suggestDetails", term = "measurement")
rtematres.api.do(task = "fetchTopTerms")
rtematres.api.do(task = "search", term = "measurement")
rtematres.api.do(task = "letter", term = "t")
rtematres.api.do(task = "fetchTerm", term = "tree")
rtematres.api.do(task = "fetchTerms", term = c("Context", "tree") )
rtematres.api.do(task = "fetchDown", term = "Context")
rtematres.api.do(task = "fetchUp", term = "measurement")
rtematres.api.do(task = "fetchRelated", term = "tree")
rtematres.api.do(task = "fetchAlt", term = "tree" )
rtematres.api.do(task = "fetchCode", term = "tree")
rtematres.api.do(task = "fetchNotes", term = "Context")
```

```

rtematres.api.do(task = "fetchDirectTerms", term = "carbon")
rtematres.api.do(task = "fetchURI", term = "carbon")
rtematres.api.do(task = "fetchTargetTerms", term = "carbon")
rtematres.api.do(task = "fetchSourceTerm", term = "Context")
rtematres.api.do(task = "fetchRelatedTerms", term = c("Context", "tree"))
rtematres.api.do(task = "fetchSimilar", term = "tree")
rtematres.api.do(task = "fetchLast")

```

```
## End(Not run)
```

rtematres.api.search *A tematres base api based function to search the server*

Description

Search a Tematres thesaurus via keywords. This function is a wrapper and so it calls the appropriate funtions depending on the search task.

Usage

```
rtematres.api.search(term, task = "search")
```

Arguments

term	The term you are looking for
task	Defines behavior on search. Defaults to "search" but can also be "broader" (look for upward definitions) and "narrower" (looking for downward definitions).

Value

The function returns a vector of keywords

rtematres.options *Set or query otions related to the rtematresdata R package.*

Description

This function is used to query and set the options used by the rtematres package. For example you can set the URLs to your tematres server and the API.

Usage

```
rtematres.options(...)
```

Arguments

... similar to [options](#). see examples below.

Examples

```
#Tematres URLs  
rtematres.options('tematres_url')  
rtematres.options(tematres_url="http://www.example.com")
```

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