

Package ‘TopicFunder’

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Type Package

Title Acquire information about funded persons and projects in the DFG-Database

Version 0.1.0

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Description TopicFunder let's you search and save information located in the GEPRIS-Database of the German Research Foundation (Deutsche Forschungsgemeinschaft)

License GLP-2

Encoding UTF-8

LazyData true

Imports xml2, rvest, dplyr, stringr, httr, igraph

Suggests robotstxt, purrr, pbapply

RoxygenNote 6.0.1

URL <http://github.com/NicoB-UOL/TopicFunder>

BugReports <http://github.com/NicoB-UOL/TopicFunder/issues>

RemoteType github

RemoteHost <https://api.github.com>

RemoteRepo TopicFunder

RemoteUsername NicoB-UOL

RemoteRef master

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GithubRepo TopicFunder

GithubUsername NicoB-UOL

GithubRef master

GithubSHA1 ae70ef2563d0a4b1d1d5fe5b95b7794db18fc225

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fasteR	<i>TopicFundeR</i>
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Description

This function has the same properties as "findeR" except that it takes an additional parameter (id_only)

Usage

```
fasteR(x, reqtime = 0, id_only = FALSE)
```

Arguments

- x A name put in quotation marks.
- reqtime A integer number specifying the seconds to wait between requests. Default is set to 0.
- id_only If TRUE, returns only a vector containg the ID.

Value

Returns a dataframe consisting of a ID-Variable, the name-Variable and the input-Variable.

Examples

```
names <- c("name1", "name2", "name3", "...")
id <- sapply(names, fasteR, reqtime = 5, id_only = TRUE)
```

`findeR`*TopicFundeR*

Description

Search the GEPRIS-Database for a name and extract the information. `FindeR` and `find_info` are best used for single names and IDs. For multiple values use `fasteR` and `wrap_it` for convenience.

Usage

```
findeR(x, reqtime = 0)
```

Arguments

<code>x</code>	A name put in quotation marks.
<code>reqtime</code>	A integer number specifying the seconds to wait between requests. Default is set to 0.

Value

Returns a dataframe consisting of a ID-Variable, the name-Variable and the input-Variable

Examples

```
findeR("Name Surname", reqtime = 5)
findeR("Name")
```

`find_info`*TopicFundeR*

Description

Extract additional information based on a person's ID. `FindeR` and `find_info` are best used for single names and IDs. For multiple values use `fasteR` and `wrap_it` for convenience.

Usage

```
find_info(x, reqtime = 0)
```

Arguments

<code>x</code>	A numeric ID.
<code>reqtime</code>	A integer number specifying the seconds to wait between requests. Default is set to 0.

Value

Returns a dataframe with additional project variables, such as number of projects, name of the projects and their corresponding IDs

Examples

```

find_info(id)
x <- findeR("name")
y <- find_info(x$id)
z <- dplyr::left_join(y, x)

```

paster

TopicFundeR

Description

Paste long strings neatly to console in order to fit the limits of your screen

Usage

```
pasteR(x, lengthline = 65)
```

Arguments

x	A string or a input coercible to one
lengthline	integer describing the wanted number of characters in each line

Examples

```
pasteR(long_link)
```

plotteR

TopicFundeR

Description

Plots a rudimental network. Either a bipartite or normal one.

Usage

```
plotteR(df, bipartite = FALSE, plotting = TRUE)
```

Arguments

bipartite	If TRUE returns a two-mode network, otherwise a one-mode network
plotting	If TRUE the network will be plotted (default option). Otherwise the two-mode-graph is returned.
x	A Dataframe.

Value

Plots a Network to viewer.

Examples

```
plotteR(df)
```

steps	<i>TopicFundeR</i>
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Description

Takes a project ID and extracts the involved scientists. Wraps around `wrap_it`.

Usage

```
steps(project_id, reqtime = 0)
```

Arguments

<code>reqtime</code>	A integer number specifying the seconds to wait between requests. Default is set to 0.
<code>x</code>	A numeric ID.

Value

Returns a dataframe consisting of informations about all joined in scientists.

Examples

```
df <- steps(id, reqtime = 2)
```

<code>wrap_it</code>	<i>TopicFundeR</i>
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Description

Used for extracting information of \textit{multiple IDs}.

Usage

```
wrap_it(ids, reqtime = 0)
```

Arguments

<code>ids</code>	Vector containing IDs
<code>reqtime</code>	A integer number specifying the seconds to wait between requests. Default is set to 0. Recommended is 5.

Value

Returns a dataframe consisting of a ID-Variable, the name-Variable and the input-Variable and several others.

Examples

```
wrap_it(ids, reqtime = 5)
```

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