

Package ‘dimensionsR’

March 20, 2020

Title Gathering Bibliographic Records from 'Digital Science Dimensions' Using 'DSL' API

Version 0.0.1

Description A set of tools to extract bibliographic content from 'Digital Science Dimensions' using 'DSL' API <<https://www.dimensions.ai/dimensions-apis/>>.

License GPL-3

URL <https://github.com/massimoaria/dimensionsR>

BugReports <https://github.com/massimoaria/dimensionsR/issues>

Encoding UTF-8

LazyData true

Imports httr, jsonlite

Suggests bibliometrix, knitr, rmarkdown

RoxygenNote 7.0.2

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2020-03-20 10:10:10 UTC

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`dsApi2df`*Convert json dimensions bibliographic data into a dataframe*

Description

It converts dimensions data, downloaded using DSL API, into a dataframe

Usage

```
dsApi2df(P, format = "bibliometrix")
```

Arguments

<code>P</code>	is a list in json dimensions structure downloaded using the function <code>dsApiRequest</code> .
<code>format</code>	is a character. If <code>format = "bibliometrix"</code> data will be converted in the bibliometrix complatible data format. If <code>format = "raw"</code> data will save in a data frame without any other data editing procedure.

Value

a dataframe containing bibliographic records or grants information.

To obtain a free access to Dimenions API fro no commercial use, please visit: <https://ds.digital-science.com/NoCostAgreement>

For more extensive information about dimensions API, please visit: <https://www.dimensions.ai/dimensions-apis/>

For more extensive information about bibliometrix R packagee, please visit: <https://www.bibliometrix.org>

See Also

[dsApiRequest](#)

[dsAuth](#)

[dsQueryBuilder](#)

Examples

```
# Example 1: Querying a collection of publications

## Not run:
token <- dsAuth(username = "my.email@my.domain", password = "mypassword")
query <- dsQueryBuilder(item = "publications", words = "bibliometric*",
                        type = "article", categories = "management",
                        start_year=1980,end_year = 2020)
D <- dsApiRequest(token = token, query = query, limit = 50000)
M <- dsApi2df(D)
```

```
## End(Not run)

# Example 2: Querying a collection of grants

## Not run:
token <- dsAuth(username = "my.email@my.domain", password = "mypassword")
query <- dsQueryBuild(item = "grants", words = "bibliometric*",
                      type = "", categories = "management",
                      start_year=1980,end_year = 2020)
D <- dsApiRequest(token = token, query = query, limit = 50000)
M <- dsApi2df(D)

## End(Not run)
```

dsApiRequest

Gather bibliographic records using Digital Science Dimensions API

Description

It gathers bibliographic records from Digital Science Dimensions. The function `dsApiRequest` queries Dimensions using a DSL query formulated through the function `dsQueryBuild`.

Usage

```
dsApiRequest(token, query, limit = 50000, verbose = FALSE)
```

Arguments

<code>token</code>	is a character. It contains a valid token to query Dimensions database through DSL API. The token can be obtain using the function <code>dsAuth</code> with valid credentials (account and password) .
<code>query</code>	is a character. It contains a search query formulated using the DSL API language. A query can be automatically generated using the function <code>dsQueryBuild</code> .
<code>limit</code>	is numeric. It indicates the max number of records to download. <code>limit</code> cannot be higher than 50.000 (as stated by Dimensions rules).
<code>verbose</code>	is logical.

Value

a list containing bibliographic metadata downloaded from Dimensions.

To obtain a free access to Dimensions API for no commercial use, please visit: <https://ds.digital-science.com/NoCostAgreement>

For more extensive information about dimensions API, please visit: <https://www.dimensions.ai/dimensions-apis/>

See Also[dsQueryBuild](#)[dsAuth](#)[dsApi2df](#)**Examples**

```
## Not run:
token <- dsAuth(username = "my.email@my.domain", password = "mypassword")
query <- dsQueryBuild(item = "publications", words = "bibliometric*",
                      type = "article", categories = "management",
                      start_year=1980,end_year = 2020)
D <- dsApiRequest(token = token, query = query, limit = 50000)

## End(Not run)
```

dsAuth*Obtain an API token from dimensions.ai*

Description

It generates a token request to dimensions.ai using account and password.

Usage

```
dsAuth(username, password, verbose = FALSE)
```

Arguments

username	is a character.
password	is a character.
verbose	is logical.

Value

a character cointaining an token o use dimensions API.

To obtain a free access to Dimenions API fro no commercial use, please visit: <https://ds.digital-science.com/NoCostAgreement>

For more extensive information about Dimensions API, please visit: <https://www.dimensions.ai/dimensions-apis/>

See Also

[dsApiRequest](#)

[dsQueryBuild](#)

[dsApi2df](#)

Examples

```
## Not run:
token <- dsAuth(username = "my.email@my.domain", password = "mypassword")

## End(Not run)
```

dsQueryBuild	<i>Generate a DSL query from a set of parameters It generates a valid query, written following the Dimensions Search Language (DSL), from a set of search parameters.</i>
--------------	---

Description

Generate a DSL query from a set of parameters It generates a valid query, written following the Dimensions Search Language (DSL), from a set of search parameters.

Usage

```
dsQueryBuild(
  item = "publications",
  words = "bibliometric*",
  full.search = FALSE,
  type = "article",
  categories = "",
  start_year = NULL,
  end_year = NULL
)
```

Arguments

item	is a character. It indicates the type of document to search. The argument can be equal to item = ("publications", "grants", "patents", "clinical_trials", "policy_documents" Default value is item = "publications".
words	is a character. It contains the search terms.
full.search	is logical. If TRUE, full-text search finds all instances of a term (keyword) in a document, or group of documents. If False, the search finds all instances in titles and abstracts only.

type	is a character. It indicates the document type to include in the search. Default is type = "article".
categories	is a character. It indicates the research categories to include in the search. If empty categories = "", all categories will be included in the search.
start_year	is integer. It indicate the starting publication year of the search timespan.
end_year	is integer. It indicate the ending publication year of the search timespan.

Value

a character containing the query in DSL format.

For more extensive information about Dimensions Search Language (DSL), please visit: <https://docs.dimensions.ai/dsl/>

To obtain a free access to Dimenions API fro no commercial use, please visit: <https://ds.digital-science.com/NoCostAgreement>

See Also

[dsApiRequest](#)

[dsAuth](#)

[dsApi2df](#)

Examples

```
## Not run:
query <- dsQueryBuild(item = "publications", words = "bibliometric*",
                      type = "article", categories = "management",
                      start_year=1980,end_year = 2020)

## End(Not run)
```

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