Package ‘rdnb’

April 10, 2019

Type Package

Title R Interface to the 'Deutsche Nationalbibliothek (German National Library) API'

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Description A wrapper for the 'Deutsche Nationalbibliothek (German National Library) API', available at <http://www.dnb.de>. The German National Library is the German central archival library, collecting, archiving, bibliographically classifying all German and German-language publications, foreign publications about Germany, translations of German works, and the works of German-speaking emigrants published abroad between 1933 and 1945. A personal access token is required for usage.

URL https://github.com/chgrl/rdnb

BugReports https://github.com/chgrl/rdnb/issues

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VignetteBuilder knitr

NeedsCompilation no

Imports brew, grDevices, httr, methods, utils, stats, stringr, xml2

Suggests knitr

RoxygenNote 6.0.1

Repository CRAN

Date/Publication 2019-04-10 19:33:01 UTC

R topics documented:

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### Description

changes brings up the NEWS file of the package.

### Usage

```
changes(pkg = "rdnb")
```

### Arguments

- **pkg**
  
  Set to the default "rdnb". Other packages make no sense.

### Examples

```
## Not run:
changes()

## End(Not run)
```

---

### Search the DNB catalogue - advanced search

#### Description

`dnb_search` exposes a search in the DNB catalogue, expressed in the DNB query language.

#### Usage

```
dnb_advanced(query, limit = 10, clean = TRUE, print = FALSE)
```

#### Arguments

- **query**
  
  the search query, expressed in the DNB query language; single string value.

- **limit**
  
  number and (optional) starting point of results returned; single integer value (number of results), vector of two integer values (number of results and first result, >=1) or "all" for a complete list of results.

- **clean**
  
  if TRUE (the default), the results are cleaned (see below for details).

- **print**
  
  if TRUE the search results are printed (default is FALSE).
Details

Cleaning of results

To harmonise the results, some clutter is deleted and abbreviations frequently used in the dnb catalogue are replaced by full words. Here is a list of all replacements:

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Value

A data.frame of results with metadata.

Source

http://www.dnb.de/EN/Service/DigitaleDienste/SRU/sru_node.html

Examples

## Not run:
# german books titled with 'cat' (male or female),
# excluding titles containing dogs, since the year 2001
cats <- dnb_advanced("(tit=katze OR tit=kater NOT tit=hund) AND jhr>2000 AND mat=books AND spr=ger")

## End (Not run)

dnb_search  

Search the DNB catalogue - simple search

Description

dnb_search exposes a search in the DNB catalogue.

Usage

dnb_search(title, author, year, publisher, keyword, type, language,
            limit = 10, clean = TRUE, print = FALSE)

Arguments

title  

the title (including subtitle, short title, volume title, etc.); optional single string value or vector of strings.

author  

the author(s); optional single string value or vector of strings.

year  

the year of publishing; optional single integer value or vector of integers.

publisher  

the publisher (publisher name and/or location); optional single string value or vector of strings.

keyword  

one or a set of keywords describing the work (subjects, persons, locations, organisations, etc.); optional single string value or vector of strings.

type  

the type of publication (optional), one or a vector of articles, manuscript, biographicaldoc, letters, bequest, collections, books, brailles, maps, discs, dissertations, online, films, microfiches, multimedia, music, scores, serials, persons, subjects, corporations, works, events, geographics.

language  

the language of the work by ISO 639-2/B code (http://www.dnb.de/SharedDocs/Downloads/DE/DNB/standardisierung/inhaltserschliessung/sprachenCodesEnglisch. pdf?__blob=publicationFile); single string value or vector of strings.

limit  

number and (optional) starting point of results returned; single integer value (number of results), vector of two integer values (number of results and first result, >=1) or "all" for a complete list of results.

clean  

if TRUE (the default), the results are cleaned (see dnb_advanced for details).

print  

if TRUE the search results are printed (default is FALSE).

Details

to do
**dnb_search**

**Value**

A list of results with metadata.

**Source**

http://www.dnb.de/EN/Service/DigitaleDienste/SRU/sru_node.html

**Examples**

```r
## Not run:
# title search
single.title <- dnb_search(title="katze")
multi.title <- dnb_search(title=c("katze", "kater", "maus", "hund"))

# author search
single.author <- dnb_search(author="kern")
author.or.author <- dnb_search(author=c("kern", "locke"))
author.and.author <- dnb_search(author=c("kern", "locke"))
author.not.author <- dnb_search(author=c("kern", "locke"))

# publication year
single.year <- dnb_search(title="katze", year=2015)
sequence.of.years <- dnb_search(title="katze", year=2010:2015)
set.of.years <- dnb_search(title="katze", year=c(2010:2013, 2015))

# publisher search
single.publisher <- dnb_search(title="katze", publisher="kiepenheuer")
set.of.publishers <- dnb_search(title="katze", publisher=c("kiepenheuer", "piper"))

# keyword search
single.keyword <- dnb_search(author="kern")
keyword.or.keyword <- dnb_search(keyword=c("katze", "hund"))
keyword.and.keyword <- dnb_search(keyword=c("katze", "hund"))
keyword.not.keyword <- dnb_search(keyword=c("katze", "hund"))

# type search
single.type <- dnb_search(title="katze", type="books")
set.of.types <- dnb_search(title="katze", type=c("books", "articles", "online"))

# language search
single.language <- dnb_search(title="ka", language="eng")
set.of.languages <- dnb_search(title=c("cat", "katze"), language=c("eng", "ger"))

# change limit of results
first.result <- dnb_search(title="katze", limit=1)
5.results.starting.with.the.21st <- dnb_search(title="katze", limit=c(5, 21))
all.results <- dnb_search(title="katze", limit="all")

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

**Number of records**

**Description**

n_rec returns the number of items in a list of records returned by a DNB-search.

**Usage**

```r
n_rec(dnb_obj)
```

**Arguments**

- **dnb_obj**
  
  the DNB-search object returned `dnb_search` or `dnb_advanced`.

**Value**

Number of records found.

**Examples**

```r
## Not run:
dnb.srch <- dnb_search(title="katze")
n_rec(dnb.srch)

## End(Not run)
```

### print_query

**Print search query**

**Description**

print_query prints out the query used for a DNB-search request.

**Usage**

```r
print_query(dnb_obj)
```

**Arguments**

- **dnb_obj**

  the DNB-search object returned by `dnb_search` or `dnb_advanced`.

**Value**

Query string.
Examples

```r
## Not run:
dnb.srch <- dnb_search(title="katze")
print_query(dnb.srch)

## End(Not run)
```

R Interface to the Deutsche Nationalbibliothek (German National Library) API

Description

A wrapper for the Deutsche Nationalbibliothek (German National Library) API, available at [http://www.dnb.de](http://www.dnb.de). The German National Library is the German central archival library, collecting, archiving, bibliographically classifying all German and German-language publications, foreign publications about Germany, translations of German works, and the works of German-speaking emigrants published abroad between 1933 and 1945. A personal access token is required for usage.

Details

All bibliographic data of the German National Library are provided free of charge and can be freely re-used under "Creative Commons Zero" (CC0 1.0) terms. The metadata and online interfaces are provided with no guarantee of their being continuous, punctual, error-free or complete, or of their not infringing the rights of third parties (e.g. personal rights and copyright). A personal access token is required for usage and can be requested by sending an e-mail to the Interface Service (<schnittstellen-service@dnb.de>). The e-mail must include the required catalogue "Catalogue of German National Library (DNB) / Katalog der Deutschen Nationalbibliothek (DNB)" and the access option "via access token / ueber Zugangscode".

References

About the DNB: [http://www.dnb.de/EN/Wir/wir_node.html](http://www.dnb.de/EN/Wir/wir_node.html); about the interface and access requirements: [http://www.dnb.de/EN/Service/DigitaleDienste/SRU/sru_node.html](http://www.dnb.de/EN/Service/DigitaleDienste/SRU/sru_node.html); the DNB web search: [http://dnb.dnb.de](http://dnb.dnb.de)

save_token

Save token to file

Description

save_token saves the DNB token to file, so the user does not to enter it for each R session.
Usage

```
save_token(token = dnb_token(), path = paste(normalizePath("~/"),
  ".Renviron", sep = "/"))
```

Arguments

token

the personal DNB token as string.

path

the path to the file where the token is stored. Default is the .Renviron file in the
users home directory.

Note

If an environment variable named "DNB_TOKEN" is found in the file, it is updated to the given
token.

Examples

```
## Not run:
save_token(token="YOUR_TOKEN_HERE")

## End(Not run)
```
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