

Package ‘rdnb’

April 10, 2019

Type Package

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

Version 0.1-3

Date 2019-04-05

Author Christian Graul [aut, cre]

Maintainer Christian Graul <christian.graul@gmail.com>

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/chgr1/rdnb>

BugReports <https://github.com/chgr1/rdnb/issues>

License MIT + file LICENSE

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:

changes	2
dnb_advanced	2
dnb_search	4

n_rec	6
print_query	6
rdnb	7
save_token	7

Index	9
--------------	----------

changes	<i>View changes notes.</i>
---------	----------------------------

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)
```

dnb_advanced	<i>Search the DNB catalogue - advanced search</i>
--------------	---

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:

Variable	Searched	Replaced by
complete dataset	\u0098	[deleted]
complete dataset	\u009c	[deleted]
complete dataset	„	,
complete dataset	..	.
complete dataset	::	;
year	[string]	[numeric]
pages	S.	[deleted]
pages	Seiten	[deleted]
pages	[[deleted]
pages]	[deleted]
publisher	Verl.	Verlag
publisher	verl.	verlag
publisher	[[deleted]
publisher]	[deleted]
edition	Aufl.	Auflage
edition	auf.	aufgabe
edition	Orig.	Original
edition	Ed.	Edition
edition	ed.	edition
edition	Ausg.	Ausgabe
edition	ausg.	ausgabe
edition	Nachdr.	Nachdruck
edition	Bibliogr.	Bibliografie
edition	[[deleted]
edition]	[deleted]
edition	[x].,	[x].
price	kart.	Kartoniert
price	Gb.	Gebunden
price	Spiralb.	Spiralbindung
price	Pb.	Paperback

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, corperations, works, events, geographics.
language	the language of the work by ISO 639-2/B code (http://www.dnb.de/SharedDocs/Downloads/DE/DNB/standardisierung/inhalterschliessung/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

Value

A list of results with metadata.

Source

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

Examples

```
## 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="cat", 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	<i>Number of records</i>
-------	--------------------------

Description

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

Usage

```
n_rec(dnb_obj)
```

Arguments

dnb_obj the DNB-search object returned [dnb_search](#) or [dnb_advanced](#).

Value

Number of records found.

Examples

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

print_query	<i>Print search query</i>
-------------	---------------------------

Description

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

Usage

```
print_query(dnb_obj)
```

Arguments

dnb_obj the DNB-serch object returned by [dnb_search](#) or [dnb_advanced](#).

Value

Query string.

Examples

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

rdnb

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>. 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; about the interface and access requirements: http://www.dnb.de/EN/Service/DigitaleDienste/SRU/sru_node.html; the DNB web search: <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("~/"),  
".Renvion", sep = "/"))
```

Arguments

token	the personal DNB token as string.
path	the path to the file where the token is stored. Default is the .Renvion 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)
```


Index

changes, [2](#)

dnb_advanced, [2](#), [4](#), [6](#)

dnb_search, [4](#), [6](#)

n_rec, [6](#)

print_query, [6](#)

rdnb, [7](#)

rdnb-package (rdnb), [7](#)

save_token, [7](#)