

Package ‘finna’

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Title Access the 'Finna' API

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Description Provides functions to access and retrieve metadata from the 'Finna' API <<https://api.finna.fi/>>, which aggregates content from Finnish archives, libraries, and museums.

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URL <https://fennicahub.github.io/finna/>,
<https://CRAN.R-project.org/package=finna>

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check_api_access	Check Access to the Finna API
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Description

This function tests whether R can successfully connect to the Finna API by downloading the OpenAPI specification from <https://api.finna.fi/api/v1/?openapi>. It returns a logical value indicating the accessibility of the API.

Usage

```
check_api_access()
```

Value

- A logical value:
- TRUE: The API is accessible.
 - FALSE: The API is not accessible.

Examples

```
## Not run:
# Check if the API is accessible
access <- check_api_access()
if (access) {
  message("Finna API is accessible")
} else {
  message("Finna API is not accessible")
}

## End(Not run)
```

enrich_author_name	<i>Enrich Author Name from 'Finna' API and Save Results</i>
--------------------	---

Description

This function reads a CSV file from a URL containing Melinda IDs and author names. If the author name is missing (NA), it searches the 'Finna' API for the corresponding Melinda ID to retrieve and update the author name. The updated data is saved in a CSV file.

Usage

```
enrich_author_name(url, output_file = "updated_na_author_rows.csv")
```

Arguments

url	A character string specifying the URL of the CSV file with Melinda IDs and author names.
output_file	A character string specifying the output CSV file name.

Value

A tibble with updated author names. The file is saved to a temporary directory using `tempdir()`.

Examples

```
## Not run:
enrich_author_name(url = "https://example/na_author_rows.csv",
  output_file = "updated_na_author_rows.csv")

## End(Not run)
```

fennica_subset

*Sample Subset of Fennica Bibliographic Records***Description**

A 300-record sample from the Fennica dataset (Melinda) for demonstration and testing.

Usage

```
data(fennica_subset)
```

Format

A data frame with 300 rows and 28 variables:

melinda_id Melinda record ID (001)
leader MARC leader field
008 Fixed-length data elements (008)
author_name Personal name of the main author (100a)
author_date Birth/death dates or period of activity (100d)
author_ID Combined authority ID from fields 100\$0 and 264a
language Language code(s) (041a)
language_original Original language (041h)
title_uniform Uniform title (240a)
title Main title (245a)
title_remainder Remainder of title (245b)
publication_place Place of publication (260a)
publisher Name of publisher (260b)
physical_dimensions Dimensions (300c)
physical_extent Extent (e.g., pages or volumes) (300a)
publication_frequency Current publication frequency (310a)
publication_interval Dates of publication or sequential designation (362a)
signum Call number or shelf mark
location_852 Library location (852a)
UDK Universal Decimal Classification (080a)
UDK_aux Auxiliary UDC notation (080x)
245n Part/section of a work (245n)
genre_655 Genre/form terms (655a)
650a Topical subject headings (650a)
general_note General note (500a)
700a Added entry – personal name (700a)
700_0 Authority ID for added personal name (700\$0)
a.15 Unidentified field (likely placeholder or parsing artifact)

Source

<https://www.finna.fi/>

fetch_all_records	<i>Fetch All Records from Finna API</i>
-------------------	---

Description

This function fetches records from the Finna API in chunks of 100,000, automatically paginating through the results until the maximum number of records is reached.

Usage

```
fetch_all_records(
  base_query = "*",
  base_filters = c("collection:\"FEN\""),
  sort = "main_date_str asc",
  limit_per_query = 1e+05,
  total_limit = Inf
)
```

Arguments

base_query	A string specifying the base query. Defaults to "*".
base_filters	A character vector of filters to apply to the query. Defaults to c('collection:"FEN"').
sort	A string defining the sort order of the results. Default is "main_date_str asc".
limit_per_query	An integer specifying the number of records to fetch per query. Defaults to 100000.
total_limit	An integer specifying the maximum number of records to fetch. Defaults to Inf.

Value

A tibble containing all fetched records.

Examples

```
## Not run:
results <- fetch_all_records(
  base_query = "*",
  base_filters = c('collection:"FEN"'),
  sort = "main_date_str asc",
  limit_per_query = 100000,
  total_limit = Inf
)
print(results)

## End(Not run)
```

fetch_fennica_records *Fetch Fennica Collection Records by Year Ranges from Finna API (Including NA Dates)*

Description

This function fetches records from the Finna API in chunks divided by year ranges, handling missing date values for the Fennica collection.

Usage

```
fetch_fennica_records(
  base_query = "*",
  base_filters = c("collection:\"FEN\"", "finna.include_hidden_parts:1"),
  year_ranges = list(c(0, as.numeric(format(Sys.Date(), "%Y")))),
  include_na = TRUE,
  limit_per_query = 1e+05,
  total_limit = Inf,
  delay_after_query = 5
)
```

Arguments

base_query	The base query string, defaults to "*".
base_filters	A character vector of filters for the search, e.g., c('collection:"FEN"').
year_ranges	A list of numeric vectors specifying year ranges, e.g., list(c(2000, 2005), c(2006, 2010)).
include_na	Whether to include records with missing main_date_str. Default is TRUE.
limit_per_query	Maximum number of records to fetch per query. Default is 100000.
total_limit	Maximum number of records to fetch overall. Default is Inf.
delay_after_query	Delay in seconds between queries. Default is 5.

Value

A tibble containing all fetched records.

fetch_finna*Fetch Finna Collection Data with Flexible Query*

Description

This function retrieves data from the Finna API and formats it as a tidy tibble.

Usage

```
fetch_finna(  
  query = NULL,  
  limit = 0,  
  facets = "building",  
  lng = "fi",  
  prettyPrint = TRUE  
)
```

Arguments

query	The query string for filtering results. Defaults to NULL, which fetches data without a specific search term.
limit	Maximum number of results to fetch. Defaults to 0.
facets	Facet to retrieve, defaults to "building".
lng	Language for results, defaults to "fi".
prettyPrint	Logical, whether to pretty-print JSON responses.

Value

A tibble containing the fetched data with relevant fields.

Examples

```
## Not run:  
  fetch_finna(query = "record_format:ead", limit = 0)  
  fetch_finna() # Fetches data with no specific query  
  
## End(Not run)
```

fetch_identifiers_with_sets	<i>Fetch OAI-PMH Identifiers with setSpec</i>
-----------------------------	---

Description

Fetches OAI-PMH record identifiers along with their setSpec (collection name).

Usage

```
fetch_identifiers_with_sets(
  base_url,
  metadata_prefix,
  set = NULL,
  user_agent = "OAIHarvester/1.0"
)
```

Arguments

base_url	A string. The base URL of the OAI-PMH server.
metadata_prefix	A string. The metadata format (e.g., "marc21").
set	A string. Optional. A set specifier.
user_agent	A string. Custom User-Agent. Default is "OAIHarvester/1.0".

Value

A tibble with identifier and setSpec.

fetch_oai_sets	<i>Fetch Available OAI-PMH Sets</i>
----------------	-------------------------------------

Description

Fetches and lists the available sets (collections) from an OAI-PMH server.

Usage

```
fetch_oai_sets(base_url, user_agent = "FinnaHarvester/1.0")
```

Arguments

base_url	A string. The base URL of the OAI-PMH server.
user_agent	A string. Custom User-Agent string. Default is "OAIHarvester/1.0".

Value

A tibble with setSpec and setName columns.

fetch_viola_records	<i>Fetch Viola Records by Year Ranges from Finna API (Including NA Dates)</i>
---------------------	---

Description

This function fetches records from the Finna API in chunks divided by year ranges, handling missing date values.

Usage

```
fetch_viola_records(
  base_query = "*",
  base_filters = c("collection:\"VIO\"", "finna.include_hidden_parts:1"),
  year_ranges = list(c(0, as.numeric(format(Sys.Date(), "%Y")))),
  include_na = TRUE,
  limit_per_query = 1e+05,
  total_limit = Inf,
  delay_after_query = 5
)
```

Arguments

base_query	The base query string, defaults to "*".
base_filters	A character vector of filters for the search, e.g., c('collection:"VIO"').
year_ranges	A list of numeric vectors specifying year ranges, e.g., list(c(2000, 2005), c(2006, 2010)).
include_na	Whether to include records with missing main_date_str. Default is TRUE.
limit_per_query	Maximum number of records to fetch per query. Default is 100000.
total_limit	Maximum number of records to fetch overall. Default is Inf.
delay_after_query	Delay in seconds between queries. Default is 5.

Value

A tibble containing all fetched records.

finna_cite	<i>Cite a Finna collection</i>
------------	--------------------------------

Description

Automatically generates a citation for a Finna collection result.

Usage

```
finna_cite(result, index, style = "citation")
```

Arguments

result	The Finna collection result as a tibble.
index	The index of the collection to cite (numeric).
style	The citation style to use (default: "citation"). See bibentry .

Value

A bibliographic entry (bibentry) printed in the specified style.

finna_interactive	<i>Interactive Finna Search and Data Download</i>
-------------------	---

Description

Provides an interactive interface to search, select, and download datasets from Finna API.

Usage

```
finna_interactive()
```

Value

A dataframe containing the selected dataset or downloaded data.

See Also

[search_finna\(\)](#), [fetch_finna\(\)](#), [finna_cite\(\)](#)

get_finna_records	<i>Get Finna Records by IDs with Extended Options</i>
-------------------	---

Description

This function retrieves multiple Finna records based on a vector of record IDs. You can specify which fields to return, the language, and the pagination options.

Usage

```
get_finna_records(  
  ids,  
  field = NULL,  
  prettyPrint = FALSE,  
  lng = "fi",  
  page = 1,  
  limit = 100  
)
```

Arguments

ids	A vector of record IDs to retrieve.
field	A vector of fields to return. Defaults to NULL, which returns all default fields.
prettyPrint	Logical; whether to pretty-print the response. Defaults to FALSE.
lng	Language for returned translated strings. Defaults to "fi".
page	The page number to retrieve. Defaults to 1.
limit	The number of records to return per page. Defaults to 20.

Value

A tibble containing the retrieved records data with provenance information.

Examples

```
## Not run:  
records <- get_finna_records("fikka.3405646", field = "title", prettyPrint = TRUE, lng = "en-gb")  
print(records)  
  
## End(Not run)
```

harvest_oai_pmh	<i>Harvest Metadata from an OAI-PMH Server</i>
-----------------	--

Description

This function harvests metadata records from an OAI-PMH-compliant server in batches, using a custom User-Agent string to identify the service and returns them in a tibble format.

Usage

```
harvest_oai_pmh(
  base_url,
  metadata_prefix,
  set = NULL,
  verbose = TRUE,
  user_agent = "FinnaHarvester/1.0",
  output_file = NULL,
  record_limit = NULL
)
```

Arguments

base_url	A string. The base URL of the OAI-PMH server.
metadata_prefix	A string. The metadata format to request (e.g., "oai_dc", "marc21").
set	A string. Optional. A set specifier to limit the harvested records (e.g., "non_dedup").
verbose	A logical. Whether to display progress messages. Default is TRUE.
user_agent	A string. A custom User-Agent string to identify the service. Default is "Finna-Harvester/1.0".
output_file	output file to be saved as a csv file.
record_limit	limits the number of records that the user wants to fetch

Value

A tibble with the harvested records containing selected metadata fields.

Examples

```
## Not run:

# Example for oai_dc (Dublin Core)
records_oai_dc <- harvest_oai_pmh(
  base_url = "https://api.finna.fi/OAI/Server",
  metadata_prefix = "oai_dc",
  user_agent = "MyCustomHarvester/1.0"
)
```

```
# Example for marc21 (MARC 21)
records_marc21 <- harvest_oai_pmh(
  base_url = "https://api.finna.fi/OAI/Server",
  metadata_prefix = "marc21",
  user_agent = "MyCustomHarvester/1.0"
)

# Example for oai_vufind_json (VuFind JSON)
records_oai_vufind_json <- harvest_oai_pmh(
  base_url = "https://api.finna.fi/OAI/Server",
  metadata_prefix = "oai_vufind_json",
  user_agent = "MyCustomHarvester/1.0"
)

# Example for oai_ead (Encoded Archival Description)
records_oai_ead <- harvest_oai_pmh(
  base_url = "https://api.finna.fi/OAI/Server",
  metadata_prefix = "oai_ead",
  user_agent = "MyCustomHarvester/1.0"
)

# Example for oai_ead3 (Encoded Archival Description version 3)
records_oai_ead3 <- harvest_oai_pmh(
  base_url = "https://api.finna.fi/OAI/Server",
  metadata_prefix = "oai_ead3",
  user_agent = "MyCustomHarvester/1.0"
)

# Example for oai_forward (Forward metadata format)
records_oai_forward <- harvest_oai_pmh(
  base_url = "https://api.finna.fi/OAI/Server",
  metadata_prefix = "oai_forward",
  user_agent = "MyCustomHarvester/1.0"
)

# Example for oai_lido (Lightweight Information Describing Objects)
records_oai_lido <- harvest_oai_pmh(
  base_url = "https://api.finna.fi/OAI/Server",
  metadata_prefix = "oai_lido",
  user_agent = "MyCustomHarvester/1.0"
)

# Example for oai_qdc (Qualified Dublin Core)
records_oai_qdc <- harvest_oai_pmh(
  base_url = "https://api.finna.fi/OAI/Server",
  metadata_prefix = "oai_qdc",
  user_agent = "MyCustomHarvester/1.0"
)

## End(Not run)
```

load_offline_data	<i>Load 'Finna' Search Results from Offline File</i>
-------------------	--

Description

This function loads previously saved 'Finna' search results from a local .rds file for offline access.

Usage

```
load_offline_data(file_name = "offline_search_results")
```

Arguments

file_name	A string representing the name of the file to load. The function automatically appends ".rds" if not already included.
-----------	--

Value

A tibble or data frame containing the loaded search results.

Examples

```
## Not run:
search_results <- search_finna("sibelius")
save_for_offline(search_results, "sibelius_search_results")
offline_data <- load_offline_data("sibelius_search_results")
print(offline_data)

## End(Not run)
```

parse_marc_fields	<i>Parse a MARC21 Record from Raw XML</i>
-------------------	---

Description

Converts MARC21 XML to a named list with field+subfield keys (e.g., "245a").

Usage

```
parse_marc_fields(xml_string)
```

Arguments

xml_string	A string of MARCXML for one record.
------------	-------------------------------------

Value

A named list of parsed fields.

refine_metadata

*Refine Finna Metadata***Description**

The `refine_metadata` function cleans and standardizes Finna metadata by:

- **Validating Required Fields:** Ensures the presence of specified fields and returns NULL if any are missing.
- **Selecting Relevant Fields:** Allows users to specify which metadata fields to retain.
- **Handling Missing Values (Optional):** If `fill_na = TRUE`, replaces NA values with placeholders.
- **Logging Missing Data (Optional):** If `verbose = TRUE`, prints a summary of missing values.

Usage

```
refine_metadata(
  data,
  fields = c("Title", "Author", "Year", "Language", "Formats", "Subjects", "Library",
    "Series"),
  fill_na = FALSE,
  verbose = FALSE
)
```

Arguments

<code>data</code>	A tibble containing raw Finna metadata.
<code>fields</code>	A character vector of metadata fields to retain. Defaults to standard fields.
<code>fill_na</code>	Logical. If TRUE, replaces NA values with placeholders. Defaults to FALSE.
<code>verbose</code>	Logical. If TRUE, prints a summary of missing values. Defaults to FALSE.

Value

A tibble with selected metadata fields, or NULL if required fields are missing.

Examples

```
## Not run:
library(finna)
sibelius_data <- search_finna("sibelius")
refine_metadata(sibelius_data, fill_na = TRUE, verbose = TRUE)

## End(Not run)
```

save_for_offline	<i>Save 'Finna' Search Results for Offline Access</i>
------------------	---

Description

This function saves 'Finna' search results and metadata locally to a file in .rds format, allowing users to access and analyze the data offline without an internet connection.

Usage

```
save_for_offline(data, file_name = "offline_search_results")
```

Arguments

data	A tibble or data frame containing the 'Finna' search results.
file_name	A string representing the name of the file to save. The function automatically appends ".rds" to the name if not already included.

Value

No return value. Called for its side effects of saving the data to a file.

Examples

```
## Not run:  
search_results <- search_finna("sibelius")  
save_for_offline(search_results, "sibelius_search_results")  
  
## End(Not run)
```

search_finna	<i>Finna Index Search with Total Limit Option</i>
--------------	---

Description

This function retrieves records from the Finna index with an option to limit the total number of records returned. The function paginates through the results, fetching records until the specified total limit is reached.

Usage

```
search_finna(
  query = NULL,
  type = "AllFields",
  fields = NULL,
  filters = NULL,
  facets = NULL,
  facetFilters = NULL,
  sort = "relevance,id asc",
  limit = 100,
  lng = "fi",
  prettyPrint = FALSE
)
```

Arguments

query	description
type	A string specifying the type of search. Options include "AllFields", "Title", "Author", "Subject". Defaults to "AllFields".
fields	A vector of fields to be returned in the search results. Defaults to NULL, which returns a standard set of fields.
filters	A vector of filter queries to refine the search. Defaults to NULL.
facets	A vector specifying which facets to return in the results. Defaults to NULL.
facetFilters	A vector of regular expressions to filter facets. Defaults to NULL.
sort	A string defining the sort order of the results. Options include: • "relevance,id asc" (default) • "main_date_str desc" (Year, newest first) • "main_date_str asc" (Year, oldest first) • "last_indexed desc" (Last modified) • "first_indexed desc" (Last added) • "callnumber,id asc" (Classmark) • "author,id asc" (Author) • "title,id asc" (Title)
limit	An integer specifying the total number of records to return across multiple pages.
lng	A string for the language of returned translated strings. Options are "fi" - Finnish, "en-gb" - English, "sv" - Swedish, "se" - Sami. Defaults to "fi" - Finnish.
prettyPrint	A logical value indicating whether to pretty-print the JSON response. Useful for debugging. Defaults to FALSE.

Value

A tibble containing the search results with relevant fields extracted and provenance information.

Examples

```
## Not run:
search_results <- search_finna("sibelius", sort = "main_date_str desc", limit = 100)
print(search_results)

## End(Not run)
```

```
search_finna_with_annif
```

Search Finna and Enrich Records with Top Annif Subject Suggestion

Description

This function searches the Finna API for records matching a query and enriches each record with the top subject suggestion from the Annif API.

Usage

```
search_finna_with_annif(
  query,
  finna_limit = 10,
  annif_project_id = "yso-fi",
  annif_limit = 10,
  annif_threshold = 0,
  annif_language = "fi"
)
```

Arguments

query	A character string representing the search term for Finna.
finna_limit	An integer specifying the maximum number of Finna records to retrieve. Default is 10.
annif_project_id	The project identifier for Annif (e.g., "yso-en"). Default is "yso-en".
annif_limit	An optional parameter to specify the maximum number of results to return from Annif. Default is 10.
annif_threshold	An optional parameter to specify the minimum score threshold for Annif results. Default is 0.
annif_language	An optional parameter to specify the language of subject labels from Annif. Default is "en".

Value

A tibble of Finna records, each enriched with the top Annif subject suggestion.

Examples

```
## Not run:
enriched_records <- search_finna_with_annif("Sibelius", finna_limit = 5)

## End(Not run)
```

search_publisher	<i>Finna Publisher Search</i>
------------------	-------------------------------

Description

This function retrieves only the publisher information from the Finna index based on the search query.

Usage

```
search_publisher(
  query = NULL,
  limit = 100,
  lng = "fi",
  filters = NULL,
  prettyPrint = FALSE
)
```

Arguments

query	A string specifying the search query.
limit	An integer specifying the total number of records to return.
lng	A string for the language of returned translated strings. Defaults to "fi".
filters	A vector of filter queries to refine the search. Defaults to NULL.
prettyPrint	A logical value indicating whether to pretty-print the JSON response. Defaults to FALSE.

Value

A tibble containing the record IDs and their respective publishers.

Examples

```
## Not run:
publishers <- search_publisher("sibelius", limit = 10)
print(publishers)

## End(Not run)
```

summarize_metadata	<i>Summarize metadata fields for reporting and quality control</i>
--------------------	--

Description

Create a publication-ready summary table for selected metadata fields. For each field, the summary reports the number of records, number of non-missing values, proportion missing, number of unique (non-missing) values, and the top-N most frequent values with counts.

Usage

```
summarize_metadata(data, fields = NULL, top_n = 3)
```

Arguments

data	A data frame (or tibble) containing metadata records.
fields	Character vector of column names to summarize. If NULL (default), all columns in data are summarized.
top_n	Integer. Number of most frequent values to report per field. Defaults to 3. Must be ≥ 0 .

Details

This helper is intended for quick dataset characterization (e.g., Methods, appendices, QC notes) after retrieving records with the package.

Value

A data frame with one row per summarized field and the following columns:

field Field name.
n Total number of rows in data.
n_non_missing Number of non-missing values (`!is.na`).
prop_missing Proportion missing in $[0, 1]$, rounded to 3 decimals.
n_unique Number of unique non-missing values.
top_values Top values formatted as "value (count); ...". NA if no non-missing values.

Examples

```
## Not run:
record <- search_finna("sibelius")
overview <- summarize_metadata(
  record,
  fields = c("id", "Title", "Author", "Year", "Language", "Formats",
    "Subjects", "Library", "Series", "last_indexed"))
overview

## End(Not run)
```

timeline	<i>Retrieve Timeline</i>
----------	--------------------------

Description

Timeline data for selected variable (possibly across various groups).

Usage

```
timeline(
  x,
  field = "titlecount",
  group = NULL,
  nmin = 0,
  mode = "absolute",
  time.window = 10,
  time.field = "Year",
  plot.type = NULL
)
```

Arguments

<code>x</code>	data frame
<code>field</code>	Numeric field to summarize in the timeline. The number of entries (title count) per decade is used by default. If this argument is used, the sum of entries per decade for this field is given.
<code>group</code>	Optional. Name for a data field that indicates groups to compare.
<code>nmin</code>	Include only entries with at least <code>nmin</code> absolute frequency
<code>mode</code>	"absolute" or "relative"
<code>time.window</code>	Time window for the timeline in years. Default: 10 (publication decade).
<code>time.field</code>	Specify the field to be used for time. By default: "Year", or if <code>time.window</code> is 10, then "publication_decade"
<code>plot.type</code>	generates a plot with options like "lineplot" or "barplot".

Value

data.frame

Author(s)

Leo Lahti <leo.lahti@iki.fi>

References

See `citation("bibliographica")`

Examples

```
## Not run: timeline(df, "gatherings", plot.type = "lineplot")
```

top_plot	<i>Plot Top Entries</i>
----------	-------------------------

Description

Visualizes the top entries for a given field in a data frame. Count and percentage statistics is also shown as needed.

Usage

```
top_plot(  
  x,  
  field = NULL,  
  ntop = NULL,  
  highlight = NULL,  
  max.char = Inf,  
  show.rest = FALSE,  
  show.percentage = FALSE,  
  log10 = FALSE  
)
```

Arguments

x	Data frame, vector or factor
field	Field to show
ntop	Number of top entries to show
highlight	Entries from the 'field' to be highlighted
max.char	Max number of characters in strings. Longer strings will be cut and only max.char first characters are shown. No cutting by default
show.rest	Show the count of leave-out samples (not in top-N) as an additional bar.
show.percentage	Show the proportion of each category with respect to the total sample count.
log10	Show the counts on log10 scale (default FALSE)

Value

ggplot object

Author(s)

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References

See citation("bibliographica")

Examples

```
## Not run: p <- top_plot(x, field, 50)
```

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