

Package: easyScieloPack (via r-universe)

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Title Easy Interface to Search 'SciELO' Database

Version 0.1.1

Description Provides a simple interface to search and retrieve scientific articles from the 'SciELO' (Scientific Electronic Library Online) database <<https://scielo.org>>. It allows querying, filtering, and visualizing results in an interactive table.

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URL <https://github.com/Programa-ISA/easyScieloPack>

BugReports <https://github.com/Programa-ISA/easyScieloPack/issues>

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`fetch_scielo_results` *Fetch search results from SciELO*

Description

This is the core function that performs the web scraping and data extraction. It handles pagination and combines results into a single data frame.

Usage

```
fetch_scielo_results(query_obj)
```

Arguments

`query_obj` A `scielo_query` object.

Value

A data frame containing all fetched articles.

`normalize_categories` *Normalize and validate a subject category*

Description

Accepts a single subject category and validates it.

Usage

```
normalize_categories(category)
```

Arguments

`category` A character vector of length 1. Subject category to filter by (e.g., "environmental sciences").

Value

A cleaned category string if valid.

normalize_collections *Normalize SciELO collection names or ISO codes*

Description

Converts country names or ISO codes into valid SciELO collection codes. Only one value is allowed.

Usage

```
normalize_collections(collections)
```

Arguments

collections A character vector of length 1: a country name (e.g., "Costa Rica") or a valid SciELO ISO code (e.g., "cri").

Value

A character string representing the normalized SciELO collection code.

Examples

```
normalize_collections("Costa Rica") # returns "cri"  
normalize_collections("cri")        # returns "cri"
```

normalize_journals *Normalize and validate a journal name*

Description

Accepts a single journal name and validates it.

Usage

```
normalize_journals(journal)
```

Arguments

journal A character vector of length 1. Journal name to filter by (e.g., "Revista Ambiente & Água").

Value

A cleaned journal name if valid.

normalize_languages *Normalize and validate article language codes*

Description

Accepts a single language code ("es", "pt", "en") and validates it.

Usage

```
normalize_languages(lang_code)
```

Arguments

lang_code A character vector of length 1. Language code to filter by.

Value

A normalized (lowercase) language code if valid.

Examples

```
normalize_languages("EN") # returns "en"
```

search_scielo *Search SciELO and return results as a data.frame*

Description

Executes a search in the SciELO database using multiple optional filters, and returns the results as a data frame.

Usage

```
search_scielo(  
  query,  
  lang = "en",  
  lang_operator = "AND",  
  n_max = NULL,  
  journals = NULL,  
  collections = NULL,  
  languages = NULL,  
  categories = NULL,  
  year_start = NULL,  
  year_end = NULL  
)
```

Arguments

| | |
|---------------|--|
| query | Search term (e.g., "climate change"). Required. |
| lang | Interface language for SciELO website ("en", "es", "pt"). Default is "en". |
| lang_operator | Operator for combining language filters ("AND" or "OR"). Default is "AND". |
| n_max | Maximum number of results to return. Optional. |
| journals | Vector of journal names to filter. Only one supported. Optional. |
| collections | A character string for filtering by SciELO collection (country name or ISO code, e.g., "Mexico" or "mex"). |
| languages | Vector of article languages to filter (e.g., "en"). |
| categories | Vector of subject categories (e.g., "ecology"). |
| year_start | Start year for filtering articles. Optional. |
| year_end | End year for filtering articles. Optional. |

Details

Note: Only one value per filter category is currently supported (e.g., only one language).

Value

A data.frame with the search results.

Examples

```
# Simple search with a keyword
df1 <- search_scielo("salud ambiental")

# Limit number of results to 5
df2 <- search_scielo("salud ambiental", n_max = 5)

# Filter by SciELO collection (country name or code)
df3 <- search_scielo("salud ambiental", collections = "Ecuador")
df4 <- search_scielo("salud ambiental", collections = "cri") # Costa Rica by ISO code

# Filter by article language
df5 <- search_scielo("salud ambiental", languages = "es")

# Filter by a specific journal
df6 <- search_scielo("salud ambiental", journals = "Revista Ambiente & Agua")

# Filter by subject category
df7 <- search_scielo("salud ambiental", categories = "environmental sciences")

# Filter by year range
df8 <- search_scielo("salud ambiental", year_start = 2015, year_end = 2020)
```

years

Validate year range for SciELO query

Description

Ensures that start and end years are valid numeric values and in correct order.

Usage

```
years(start_year, end_year)
```

Arguments

start_year Integer. Start year for filtering (inclusive).
end_year Integer. End year for filtering (inclusive).

Value

A list with named elements year_start and year_end.

Examples

```
valid_years <- years(2018, 2022)
```

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