Package ‘rscielo’

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Description Scrapes data from scientific articles hosted on the Scientific Electronic Library Online Platform <http://www.scielo.br/>. The data information includes author's names, articles' metadata and contents, among others. The package also provides additional functions to easily summarize the scraped data.
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Description

rscielo provides functions to easily scrape bibliometric information from scientific journals and articles hosted on the Scientific Electronic Library Online Platform (Scielo.br). The retrieved data includes a journal’s details and citation counts; article’s contents, footnotes, bibliographic references; and several other common information used in bibliometric studies. The package also offers functions to quickly summarize the scrapped data.

Details

To learn more about rscielo, check the package documentation.

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See Also

Useful links:

- https://github.com/meirelesff/rscielo
- Report bugs at https://github.com/meirelesff/rscielo/issues

get_article

Scrape text from a single article hosted on Scielo

Description

get_article() scraped the full text from an article hosted on Scielo. In bilingual journals, the text retrieved is in the journal’s main language used for publication (most of the time, it is English).

Usage

get_article(x, output_text = TRUE)
Arguments

x a character vector with the link or id of the article hosted on Scielo to be scrapped.

output_text a logical indicating whether `get_article()` should return a character vector or a tibble (defaults to TRUE).

Value

When the argument `output_text` is TRUE, the function returns a character vector with the requested article’s content. When `output_text` is FALSE, the function returns a tibble with the following variables:

- text: article’s full text (character).
- doi: article’s Digital Object Identifier (DOI, character).

Note

Sometimes, the Scielo website is offline for maintenance, in which cases this function will not work (i.e., users will get HTML status different from the usual 200 OK).

Examples

```r
article <- get_article(x = "http://www.scielo.br/scielo.php?
script=sci_arttext&pid=S1981-38212016000200201&lng=en&nrm=iso&tlng=en")
```

---

**Scrape footnotes from a single article hosted on Scielo**

Description

`get_article_footnotes()` scrapes all the footnotes in an article hosted on Scielo.

Usage

`get_article_footnotes(x)`

Arguments

x a character vector with the link or id of the article hosted on Scielo to be scrapped.

Value

The function returns a tibble with the following variables:

- footnote: article’s footnotes (character).
- doi: article’s Digital Object Identifier (character).
Note

Sometimes, the Scielo website is offline for maintainance, in which cases this function will not work (i.e., users will get HTML status different from the usual 200 OK).

Examples

```r
df <- get_article_fnotes(x = "http://www.scielo.br/scielo.php?
script=sci_arttext&pid=S1981-38212016000200201&lng=en&nrm=iso&tlng=en")
```

This function extracts the ID of an article's URL.

Usage

```r
get_article_id(url)
```

Arguments

- `url` a character vector with the URL of an article hosted on Scielo.

Value

The function returns a character vector with the article ID.

Examples

```r
id <- get_article_id(url = "http://www.scielo.br/scielo.php?script=sci_arttext&
pid=S1981-38212016000200201&lng=en&nrm=iso&tlng=en")
```
get_article_meta

Scrape meta-data from a single article hosted on Scielo

Description

get_article_meta() scrapes meta-data information from an article hosted on Scielo.

Usage

get_article_meta(x)

Arguments

x a character vector with the link or id of the article hosted on Scielo to be scrapped.

Details

This functions scrapes several meta-data information, such as author’s names, article title, year of publication, journal issue and number of pages.

Value

The function returns a tibble with the following variables:

• author: Author name.
• first_author_surname: First author surname.
• institution: Author’s institution.
• inst_adress: Author’s institution address.
• country: Author’s country.
• title: Article title.
• year: Year of publication.
• journal: Journal name.
• volume: Volume.
• number: Number.
• first_page: Article’s first page.
• last_page: Article’s last page
• abstract: Article’s abstract.
• keywords: Article’s keywords.
• article_id:
• doi: DOI.
• n_authors: Number of authors.
• n_pages: Number of pages.
• n.refs: Number of references.
get_article_references

Note

Sometimes, the Scielo website is offline for maintaince, in which cases this function will not work (i.e., users will get HTML status different from the usual 200 OK).

See Also

generate_reference

table

Examples

```r
article_meta <- get_article_meta(x = "http://www.scielo.br/scielo.php?script=sci_arttext&pid=S1981-38212016000200201&lng=en&nrm=iso&tlng=en")
```

---

## get_article_references

Scrape bibliographic references from a single article hosted on Scielo

### Description

generate(Bibliographic references) scrimps a list of bibliographic references cited by an article hosted on Scielo.

### Usage

generate(Bibliographic references)(x)

### Arguments

- **x**: a character vector with the link or id of the article hosted on Scielo to be scrapped.

### Value

The function a tibble with the following variables:

- references: an article’s bibliographic reference (character).
- doi: article’s Digital Object Identifier (DOI).

### Note

Sometimes, the Scielo website is offline for maintaince, in which cases this function will not work (i.e., users will get HTML status different from the usual 200 OK).
get_journal

Examples

```r
```

---

**get_journal**  
*Scrape meta-data from articles published by a journal hosted on Scielo*

**Description**

get_journal() scrapes meta-data information from articles of a journal hosted on Scielo. In bilingual journals, articles’ titles, abstracts and other relevant information are retrieved in the journal’s main language used for publication (most of the time, it is English). The function can extract information from all articles ever published by the journal or only the ones in its latest issue.

**Usage**

get_journal(journal_id, last_issue = TRUE)

**Arguments**

- **journal_id**  
a character vector with the ID of the journal hosted on Scielo (the get_journal_id function can be used to find the journal ID from its URL).

- **last_issue**  
a logical vector, if FALSE scrapes all issues of the journal, if TRUE (default) only scrapes its last issue.

**Details**

This functions scrapes several meta-data information, such as author’s names, articles’ titles, year of publication, edition and number of pages, that can be summarized with specific `summary` method.

**Value**

The function returns a tibble with the following variables:

- author: Author name.
- first_author_surname: First author surname.
- institution: Author’s institution.
- inst_adress: Author’s institution address.
- country: Author’s country.
- title: Article title.
- year: Year of publication.
- journal: Journal name.
- volume: Volume.
• number: Number.
• first_page: Article’s first page.
• last_page: Article’s last page
• abstract: Article’s abstract.
• keywords: Article’s keywords.
• article_id:
• doi: DOI.
• n_authors: Number of authors.
• n_pages: Number of pages.
• n_refs: Number of references.

Note

Sometimes, the Scielo website is offline for maintenance, in which cases this function will not work (i.e., users will get HTML status different from the usual 200 OK).

See Also

g::get_article_meta

Examples

df <- get_journal(journal_id = "1981-3821")
summary(df)

---

get_journal_id  
Get the ID of a journal hosted on Scielo

Description

get_journal_id() extracts the numerical ID (pid) from a journal’s URL.

Usage

g::get_journal_id(url)

Arguments

url  a character vector with the URL of a journal hosted on Scielo.

Value

The function returns a character vector with the journal ID.


Examples

```r
id <- get_journal_id(url = "http://www.scielo.br/scielo.php?
script=sci_serial&pid=1981-3821&lng=en&nrm=iso")
```

---

**Description**

`get_journal_info()` scrapes the description (publisher, issn, and mission) information of a journal hosted on Scielo.

**Usage**

`get_journal_info(journal_id)`

**Arguments**

`journal_id` a character vector with the ID of the journal hosted on Scielo (the `get_journal_id` function can be used to find a journal’s ID from its URL).

**Value**

The function returns a tibble with the journal’s description.

**Note**

Sometimes, the Scielo website is offline for maintenance, in which cases this function will not work (i.e., users will get HTML status different from the usual 200 OK).

**Examples**

```r
journal_info <- get_journal_info(journal_id = "1981-3821")
```
get_journal_list
Scrape a list with all the journals hosted on Scielo

Description

get_journal_list() scrapes the title, the numerical ID (pid) and the URL of all journals hosted on Scielo.

Usage

get_journal_list()

Value

The function returns a tibble with each journal's title, ID, and URL.

Examples

journal_list <- get_journal_list()

get_journal_metrics
Scrape publication and citation counts of a journal hosted on Scielo

Description

get_journal_metrics() scrapes publication and citation counts of a journal hosted on Scielo.

Usage

get_journal_metrics(journal_id)

Arguments

journal_id a character vector with the ID of the journal hosted on Scielo (the get_journal_id function can be used to find a journal’s ID from its URL).

Value

The function returns a tibble with the following variables:

- year: Year.
- n_issues: Number of issues in that year.
- n_articles: Number of articles in that year.
- granted_citations: Granted citations by the journal in that year.
- received_citations: Received citations by the journal in that year.
- avg_art_per_issues: Average number of articles published by the journal in that year.
get\_journal\_metrics

Note

Sometimes, the Scielo website is offline for maintaince, in which cases this function will not work (i.e., users will get HTML status different from the usual 200 OK).

Examples

```r
df <- get\_journal\_metrics(journal\_id = "1981-3821")
```
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