

Package ‘psreplicate’

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Type Package

Title Access the Political Science Replication Index from R

Version 0.1.0

Description Search and browse the Political Science Replication Index (<https://jsakowuah.github.io/polisci-replication/>), a searchable, tagged index of replication packages crawled monthly from flagship political science journals' Harvard Dataverse collections, without leaving R. Provides functions to download and cache the index locally and to search and filter it by journal, method, data type, and year.

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Imports jsonlite, tibble, tools, utils

Suggests dataverse, knitr, rmarkdown, testthat (>= 3.1.4)

Config/testthat/edition 3

VignetteBuilder knitr

URL <https://github.com/jsakowuah/psreplicate>,
<https://jsakowuah.github.io/polisci-replication/>

BugReports <https://github.com/jsakowuah/psreplicate/issues>

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browse_dataset	<i>Open a dataset’s page in your web browser</i>
----------------	--

Description

Looks up the record by DOI and opens its url with `utils::browseURL()`, so you can go from a search result straight to the dataset itself without copying a link.

Usage

```
browse_dataset(doi)
```

Arguments

doi The dataset’s DOI (see `dataset_info()`).

Value

Invisibly, the URL that was opened.

Examples

```
browse_dataset("doi:10.7910/DVN/PRYYZ5")
```

dataset_info	<i>Look up a single record by DOI</i>
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Description

Look up a single record by DOI

Usage

```
dataset_info(doi)
```

Arguments

doi	The dataset's DOI, e.g. "doi:10.7910/DVN/PRYYZ5" (as returned in the doi column of any search result).
-----	--

Value

A one-row `tibble::tibble()`, or a zero-row tibble if no record matches (see `search_replications()` for the column definitions).

Examples

```
dataset_info("doi:10.7910/DVN/PRYYZ5")
```

download_dataset	<i>Download a dataset's files</i>
------------------	-----------------------------------

Description

Downloads a replication package's files to a local directory, without leaving R. Requires the **dataverse** package (`install.packages("dataverse")`); this is a thin convenience wrapper around it, scoped to this index's data and DOI format.

Usage

```
download_dataset(doi, dest = tempfile("psreplicate_"), files = NULL)
```

Arguments

doi	The dataset's DOI (see the doi column of any search result).
dest	Directory to download into. Created if it doesn't exist. Defaults to a new temporary directory.
files	Optional character vector of filenames to download (see <code>list_dataset_files()</code>); by default, every file in the dataset.

Value

Invisibly, a character vector of the local file paths written. A file that fails to download (e.g. access-restricted) is skipped with a warning rather than aborting the rest of the download.

Examples

```
hit <- search_by_title("Rebel Victory and Authoritarian")
download_dataset(hit$doi[1])
```

list_dataset_files	<i>List the files in a dataset</i>
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Description

Previews what's available before downloading anything with `download_dataset()`. Requires the **dataverse** package (`install.packages("dataverse")`), which does the actual work of talking to Harvard Dataverse's file API.

Usage

```
list_dataset_files(doi)
```

Arguments

doi	The dataset's DOI (see the doi column of any search result).
-----	--

Value

A `tibble::tibble()` with columns filename, filesize (bytes), and content_type.

Examples

```
hit <- search_by_title("Rebel Victory and Authoritarian")
list_dataset_files(hit$doi[1])
```

list_data_types	<i>List data-type tags used in the index</i>
-----------------	--

Description

The valid values to pass to `search_by_data_type()` or `search_replications()`'s `data_type` argument aren't documented anywhere else - this lists exactly what's actually in the data, most common first.

Usage

```
list_data_types()
```

Value

A `tibble::tibble()` with columns `data_type` and `n_records`.

Examples

```
list_data_types()
```

list_functions	<i>List every function this package exports</i>
----------------	---

Description

A quick reference, since the API is spread across several small, single-purpose functions rather than one do-everything call. Equivalent information is available via `library(help = "psreplicate")`, but this is meant to be more skimmable.

Usage

```
list_functions()
```

Value

A `tibble::tibble()` with columns `function_name` and `description`, in the order you'd typically reach for them.

Examples

```
list_functions()
```

list_journals	<i>List journals covered by the index</i>
---------------	---

Description

List journals covered by the index

Usage

```
list_journals()
```

Value

A `tibble::tibble()` with one row per journal currently represented in the index: `journal_short`, `journal_name`, and `n_records` (the number of indexed replication packages).

Examples

```
list_journals()
```

list_methods	<i>List method tags used in the index</i>
--------------	---

Description

The valid values to pass to `search_by_method()` or `search_replications()`'s `method` argument aren't documented anywhere else - this lists exactly what's actually in the data, most common first.

Usage

```
list_methods()
```

Value

A `tibble::tibble()` with columns `method` and `n_records`.

Examples

```
list_methods()
```

load_dataset_file	<i>Load one file from a dataset directly into R</i>
-------------------	---

Description

Unlike `download_dataset()`, this never writes anything to disk. Tabular files (`.tab/.dta/.csv/etc.` that Dataverse has ingested) come back as a tibble; `.rds` files are deserialized directly with `readRDS()` as whatever R object they contain; other plain-text files (scripts, READMEs) come back as a character vector of lines; anything else (PDFs, images, other binaries) comes back as a raw vector, since there's no sensible in-memory representation otherwise. Requires the **dataverse** package (`install.packages("dataverse")`).

Usage

```
load_dataset_file(doi, filename)
```

Arguments

doi	The dataset's DOI (see the doi column of any search result).
filename	The file to load, exactly as it appears in <code>list_dataset_files()</code> .

Value

A `tibble::tibble()` for tabular files, whatever R object was saved for `.rds` files, a character vector for plain-text files, or a raw vector otherwise.

Examples

```
hit <- search_by_title("Rebel Victory and Authoritarian")
load_dataset_file(hit$doi[1], "area.tab")
```

refresh_index	<i>Download or refresh the local copy of the replication index</i>
---------------	--

Description

Downloads the current Political Science Replication Index and stores it in a per-session-independent, per-user cache directory (see `tools::R_user_dir()`), so subsequent calls to `search_replications()` and `list_journals()` don't need network access. The cache is refreshed automatically once it is more than a day old; call this directly to force an update sooner.

Usage

```
refresh_index(force = FALSE)
```

Arguments

force Logical; re-download even if a cached copy less than a day old already exists. Default FALSE.

Value

Invisibly, the path to the cached index file.

Examples

```
refresh_index()
```

search_by_abstract	<i>Search by abstract only</i>
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Description

Matches only the dataset's abstract/description text (the `description` column), not title or authors.

Usage

```
search_by_abstract(query)
```

Arguments

query Search term, matched case-insensitively as a substring.

Value

A `tibble::tibble()` of matching records (see `search_replications()` for the column definitions).

Examples

```
search_by_abstract("difference-in-differences")
```

search_by_author	<i>Search by author name</i>
------------------	------------------------------

Description

Matches only the authors column (each a "Last, First; Last, First" string), not title or abstract.

Usage

```
search_by_author(query)
```

Arguments

query	Search term, matched case-insensitively as a substring.
-------	---

Value

A `tibble::tibble()` of matching records (see [search_replications\(\)](#) for the column definitions).

Examples

```
search_by_author("Wantchekon")
```

search_by_data_type	<i>Get all records tagged with a given data type</i>
---------------------	--

Description

Get all records tagged with a given data type

Usage

```
search_by_data_type(data_type)
```

Arguments

data_type	Character vector of data-type tags; a record matches if it has at least one of the given tags.
-----------	--

Value

A `tibble::tibble()` of matching records (see [search_replications\(\)](#) for the column definitions).

Examples

```
search_by_data_type("Elections / Voting")
```

search_by_journal	<i>Get all records from a journal</i>
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Description

Get all records from a journal

Usage

```
search_by_journal(journal)
```

Arguments

journal	Character vector of journal short codes (see list_journals()), e.g. "AJPS" or c("AJPS", "APSR").
---------	---

Value

A `tibble::tibble()` of matching records (see [search_replications\(\)](#) for the column definitions).

Examples

```
search_by_journal("AJPS")
search_by_journal(c("AJPS", "APSR"))
```

search_by_method	<i>Get all records tagged with a given method</i>
------------------	---

Description

Get all records tagged with a given method

Usage

```
search_by_method(method)
```

Arguments

method	Character vector of method tags; a record matches if it has at least one of the given tags.
--------	---

Value

A `tibble::tibble()` of matching records (see `search_replications()` for the column definitions).

Examples

```
search_by_method("Survey Experiment")
```

search_by_title	<i>Search by title only</i>
-----------------	-----------------------------

Description

Unlike `search_replications()`'s query argument, which matches across title, abstract, and authors together, this matches only the title.

Usage

```
search_by_title(query)
```

Arguments

query	Search term, matched case-insensitively as a substring.
-------	---

Value

A `tibble::tibble()` of matching records (see `search_replications()` for the column definitions).

Examples

```
search_by_title("regression discontinuity")
```

search_by_year	<i>Get all records published in given year(s)</i>
----------------	---

Description

Get all records published in given year(s)

Usage

```
search_by_year(year)
```

Arguments

year	Integer vector of publication years, e.g. 2020 or 2015:2020.
------	--

Value

A `tibble::tibble()` of matching records (see `search_replications()` for the column definitions).

Examples

```
search_by_year(2020:2024)
```

search_replications	<i>Search the Political Science Replication Index</i>
---------------------	---

Description

Search the Political Science Replication Index

Usage

```
search_replications(
  query = NULL,
  journal = NULL,
  method = NULL,
  data_type = NULL,
  year = NULL
)
```

Arguments

query	Optional free-text search term, matched case-insensitively against each record's title, description, and author names.
journal	Optional character vector of journal short codes (see list_journals()) to filter to.
method	Optional character vector of method tags to filter to; a record matches if it has at least one of the given tags.
data_type	Optional character vector of data-type tags; same matching rule as method.
year	Optional integer vector of publication years (e.g. 2015:2020) to filter to.

Value

A `tibble::tibble()` of matching records, with one row per replication package and columns `journal_short`, `title`, `doi`, `url`, `authors` (a single "Last, First; Last, First" string), `year`, `description`, `method_tags`, `data_type_tags`.

Examples

```
search_replications(query = "regression discontinuity", journal = "AJPS")
search_replications(method = "Survey Experiment", year = 2020:2024)
```

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