

Package ‘rgovcan’

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Type Package

Title Easy Access to the Canadian Open Government Portal

Version 1.0.3

Description Allows to search for existing resources, including datasets, on the Canadian Open Government portal (<<https://open.canada.ca/en>>). It is also designed to allow users to easily download a range of files directly from the portal in a reproducible manner.

Imports cli, ckanr, crayon, crul, tibble, utils

Suggests testthat, covr

License GPL-3

Encoding UTF-8

RoxygenNote 7.1.1

URL <https://vlucet.github.io/rgovcan/>

BugReports <https://github.com/VLucet/rgovcan/issues>

NeedsCompilation no

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govcan_dl_resources *Download the resources attached to a specific record or (i.e. a CKAN package) or to a stack of packages*

Description

Download resources attached to a specific record or (i.e. a CKAN package) or to a stack of packages.

Usage

```
govcan_dl_resources(resources, excluded, included, path, id_as_filename, ...)
```

```
## S3 method for class 'ckan_resource'
govcan_dl_resources(
  resources,
  excluded = NULL,
  included = NULL,
  path = ".",
  id_as_filename = FALSE,
  ...
)
```

```
## S3 method for class 'ckan_resource_stack'
govcan_dl_resources(resources, ...)
```

```
## S3 method for class 'character'
govcan_dl_resources(resources, ...)
```

```
## S3 method for class 'ckan_package'
govcan_dl_resources(resources, ...)
```

```
## S3 method for class 'ckan_package_stack'
govcan_dl_resources(resources, ...)
```

Arguments

resources	An object of class ckan_package_stack or ckan_package, or a specific resource id, or (i.e. a CKAN package), or an object of type ckan_resource or ckan_resource_stack.
excluded	(vector of characters) Files of this format(s) will <i>not</i> be downloaded (NULL ignores this filter and is the default value).
included	(vector of characters) Only the files of this format(s) will be downloaded (NULL ignores this filter and is the default value).
path	(character) name indicating where to store the data (default is the current working directory).

`id_as_filename` (logical) Use the resource identifier as file name. This is particularly useful when two different resources have the same filename.

... Curl arguments passed on to `crul::verb-GET` (see `ckanr::ckan_fetch()`).

Details

File names are handled internally.

Value

A tibble of the download metadata (file id, package id, url, download path, format, storage location, associated data).

Methods (by class)

- `ckan_resource`: Method for `ckan_resource` objects.
- `ckan_resource_stack`: Method for `ckan_resource_stack` objects.
- `character`: Method for `character` objects.
- `ckan_package`: Method for `ckan_package` objects.
- `ckan_package_stack`: Method for `ckan_package_stack` objects.

Examples

```
## Not run:
id <- "b7ca71fa-6265-46e7-a73c-344ded9212b0"
dir <- tempdir(check = TRUE)
res <- govcan_dl_resources(id, path = dir)

## End(Not run)
```

`govcan_get_record` *Query OpenCan portal for a specific record (i.e. a CKAN package)*

Description

This function wraps `ckanr::package_show()` to access a specific record (or package, in CKAN terms) given its unique id

Usage

```
govcan_get_record(
  record_id,
  format_resources = FALSE,
  only_resources = FALSE,
  ... = NULL
)
```

Arguments

- `record_id` (character) The id of the wanted dataset, which can be found with a search using `govcan_search`, or on <https://open.canada.ca/en>. The id is of the form "4a2929ce-d6b1-49b0-b520-63be0859c552"
- `format_resources` (logical) Whether the function should return a formatted output of the resources as a tibble or an unformatted list of resources (default is FALSE)
- `only_resources` (logical) Whether the function should return only the resources from the record (list of files available for download). Resources can also be accessed with `govcan_show_resources`
- ... More arguments to be passed on to `ckanr::package_show()`

Value

If `only_resources` is TRUE, will return only the list of data files (resources) associated with the record queried else it will return all the output of the CKAN query. If `format_resources` is TRUE, the resources are formatted to a tibble.

Examples

```
## Not run:
pid <- "b7ca71fa-6265-46e7-a73c-344ded9212b0"
pkg <- govcan_get_record(pid)

## End(Not run)
```

`govcan_get_resources` *Display or Query resources attached to a specific record or (i.e. a CKAN package) or to a stack of packages*

Description

Display resources attached to a specific record or (i.e. a CKAN package) or to a stack of packages

Usage

```
govcan_get_resources(x)
```

Arguments

- `x` An object of the class `ckan_package_stack` or `ckan_package`, or an id of a specific record or (i.e. a CKAN package).

Value

A object of class `ckan_resource_stack` or list of `ckan_resource_stack` objects.

Examples

```
## Not run:
search <- govcan_search("dfo", 10)
id_resources <- govcan_get_resources(search)

## End(Not run)
```

govcan_search	<i>Query OpenCan portal for datasets (CKAN packages) matching keywords</i>
---------------	--

Description

This function wraps `ckanr::package_search()` to search for any records matching a given set of keywords within the Open Canada Portal.

Usage

```
govcan_search(
  keywords,
  records = 10,
  only_results = TRUE,
  format_results = FALSE,
  ...
)
```

Arguments

keywords	(character vector) A set of keywords to query.
records	(numeric) The number of matching records to return from the CKAN query (number of rows in the JSON output), default to 10.
only_results	(logical) Whether the function should return only the results without the query metadata (default is TRUE).
format_results	(logical) Whether the function should return a formatted output of the results as a tibble or an unformatted version under the form of a list of CKAN packages (default is FALSE).
...	More arguments to be passed on to <code>ckanr::package_search()</code> .

Value

If `only_results` is TRUE and `format_results` is FALSE (recommended), will return only the results of the search as a `CKAN_package_stack`. If `only_results` is FALSE, will return a list including also the query metadata. If `format_results` is TRUE, the function formats the output as a data frame (not CKAN packages).

Examples

```
## Not run:
search <- govcan_search("dfo", 10)
search_format <- govcan_search("dfo", 10, format_results = TRUE)
search_list <- govcan_search("dfo", 10, only_results = FALSE)
search_list_format <- govcan_search("dfo", 10, format_results = TRUE,
                                   only_results = FALSE)

## End(Not run)
```

govcan_setup	<i>Set or reset the ckanr URL</i>
--------------	-----------------------------------

Description

Set or reset the ckanr URL to the Open Canada portal URL <https://open.canada.ca/data/en>

Usage

```
govcan_setup(url = "https://open.canada.ca/data/en")
```

Arguments

url Open Canada portal URL.

Value

This function invisibly returns the URL sent as input.

Examples

```
## Not run:
govcan_setup("https://open.canada.ca/data/en")

## End(Not run)
```

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