Package ‘ckanr’

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Title  Client for the Comprehensive Knowledge Archive Network ('CKAN') API

Description  Client for 'CKAN' API (<https://ckan.org/>). Includes interface to 'CKAN' 'APIs' for search, list, show for packages, organizations, and resources. In addition, provides an interface to the 'datastore' API.

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License  MIT + file LICENSE

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     https://github.com/ropensci/ckanr (devel)

BugReports  https://github.com/ropensci/ckanr/issues

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Description

ckanr is a full client for the CKAN API, wrapping all APIs, including for reading and writing data. Please get in touch (https://github.com/ropensci/ckanr/issues or https://discuss.ropensci.org/) if you have problems, or have use cases that we don’t cover yet.

CKAN API

Document for the CKAN API is at https://docs.ckan.org/en/latest/api/index.html. We’ll always be following the latest version of the API.

ckanr package API

The functions can be grouped into those for setup, packages, resources, tags, organizations, groups, and users.

• Setup - The main one is ckanr_setup() - and many related functions, e.g., get_default_key()
• Packages - Create a package with package_create(), and see other functions starting with package_*
• Resources - Create a package with resource_create(), and see other functions starting with resource_*
• Tags - List tags with tag_list(), and see other functions starting with tag_*
• Organizations - List organizations with organization_list(), show a specific organization with organization_show(), and create with organization_create()
• Groups - List groups with group_list(), and see other functions starting with group_*
• Users - List users with user_list(), and see other functions starting with user_*
• Related items - See functions starting with related_*

Datastore

We are also working on supporting the Datastore extension (https://docs.ckan.org/en/latest/maintaining/datastore.html). We currently have these functions:

• ds_create()
• ds_create_dataset()
• ds_search()
• ds_search_sql()

Fetch

Data can come back in a huge variety of formats. We’ve attempted a function to help you fetch not just metadata but the actual data for a link to a file on a CKAN instance. Though if you know what you’re doing, you can easily use whatever is your preferred tool for the job (e.g., maybe you like read.csv() for reading csv files).

CKAN Instances

We have a helper function (servers()) that spits out the current CKAN instances we know about, with URLs to their base URLs that should work using this package. That is, not necessarily landing pages of each instance, although, the URL may be the landing page and the base API URL.

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as.ckan_group

ckan_group class helpers

Description

ckan_group class helpers

Usage

as.ckan_group(x, ...)

is.ckan_group(x)

Arguments

x

Variety of things, character, list, or ckan_group class object

...

Further args passed on to group_show() if character given

Examples

## Not run:
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

(grps <- group_list())
grps[[3]]

# create item class from only an item ID
as.ckan_group(grps[[3]]$id)

# gives back itself
(x <- as.ckan_group(grps[[3]]$id))

as.ckan_group(x)

## End(Not run)

as.ckan_organization

ckan_organization class helpers

Description

ckan_organization class helpers

Usage

as.ckan_organization(x, ...)

is.ckan_organization(x)
as.ckan_package

Arguments

x Variety of things, character, list, or ckan_organization class object

... Further args passed on to organization_show() if character given

Examples

## Not run:
ckanr_setup(url = "https://demo.ckan.org/",
key = getOption("ckan_demo_key"))

(orgs <- organization_list(limit = 3))
orgs[[3]]

# create item class from only an item ID
as.ckan_organization(orgs[[3]]$id)

# gives back itself
(x <- as.ckan_organization(orgs[[3]]$id))
as.ckan_organization(x)

## End(Not run)

as.ckan_package ckan_package class helpers

Description

ckan_package class helpers

Usage

as.ckan_package(x, ...)

is.ckan_package(x)

Arguments

x Variety of things, character, list, or ckan_package class object

... Further args passed on to package_show() if character given. In particular, if GET is not supported you can try the http_method parameter to set a different HTTP verb
Examples

## Not run:
ckanr_setup(url = "https://demo.ckan.org/",
    key = getOption("ckan_demo_key"))

(pkgs <- package_search())
pkgs$results
pkgs$results[[3]]

# create item class from only an item ID
as.ckan_package(pkgs$results[[3]]$id)

# gives back itself
(x <- as.ckan_package(pkgs$results[[3]]$id))
as.ckan_package(x)

## End(Not run)

as.ckan_related  ckan_related class helpers

Description

ckan_related class helpers

Usage

as.ckan_related(x, ...)

is.ckan_related(x)

Arguments

x Variety of things, character, list, or ckan_related class object
...
Further args passed on to related_show() if character given

Examples

## Not run:
ckanr_setup(url = "https://demo.ckan.org/",
    key = getOption("ckan_demo_key"))

(x <- package_create("foobbbbaraRRrrr") %>%
  related_create(title = "my resource",
    type = "visualization"))

# create item class from only an item ID
as.ckan_related(x$id)
as.ckan_resource

ckan_resource class helpers

Description

ckan_resource class helpers

Usage

as.ckan_resource(x, ...)

is.ckan_resource(x)

Arguments

x Variety of things, character, list, or ckan_package class object
...

Further args passed on to resource_show() if character given

Examples

## Not run:
ckanr_setup(url = "https://demo.ckan.org/",
key = getOption("ckan_demo_key")

(resrcs <- resource_search(q = 'name:data'))
resrcs$results
resrcs$results[[3]]

# create item class from only an item ID
as.ckan_resource(resrcs$results[[3]]$id)

# gives back itself
(x <- as.ckan_resource(resrcs$results[[3]]$id))
as.ckan_resource(x)

## End(Not run)
### as.ckan_tag

**ckan_tag class helpers**

**Description**

ckan_tag class helpers

**Usage**

```r
as.ckan_tag(x, ...)
```

```r
is.ckan_tag(x)
```

**Arguments**

- `x` Variety of things, character, list, or ckan_tag class object
- `...` Further args passed on to `tag_show()` if character given

**Examples**

```r
## Not run:
ckanr_setup(url = "https://demo.ckan.org/",
key = getOption("ckan_demo_key"))

(tags <- tag_search(query = 'ta'))
tags[[3]]

# create item class from only an item ID
as.ckan_tag(tags[[3]]$id)

# gives back itself
(x <- as.ckan_tag(tags[[3]]$id))
as.ckan_tag(x)

## End(Not run)
```

### as.ckan_user

**ckan_user class helpers**

**Description**

ckan_user class helpers

**Usage**

```r
as.ckan_user(x, ...)
```

```r
is.ckan_user(x)
```
changes

Get an activity stream of recently changed datasets on a site.

Description

Get an activity stream of recently changed datasets on a site.

Usage

```r
changes(
  offset = 0,
  limit = 31,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

Arguments

- `offset` (numeric) Where to start getting activity items from (optional, default: 0)
- `limit` (numeric) The maximum number of activities to return (optional, default: 31)
- `url` Base url to use. Default: https://data.ontario.ca/ See also `ckanr_setup` and `get_default_url`. 

Examples

```r
## Not run:
ckanr_setup(url = "https://demo.ckan.org/",
  key = getOption("ckan_demo_key"))

(usr <- user_list())
usr[[1:3]]
usr[[3]]

# create item class from only an item ID
as.ckan_user(usr[[3]]$id)

# gives back itself
(x <- as.ckan_user(usr[[3]]$id))
as.ckan_user(x)

## End(Not run)
```
key
as

A privileged CKAN API key. Default: your key set with ckanr_setup
(character) One of list (default), table, or json. Parsing with table option uses
jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to
parse data to data.frame's when possible, so the result can vary from a vector,
list or data.frame. (required)

... Curl args passed on to verb-POST (optional)

Examples

## Not run:
changes()
changes(as = 'json')
changes(as = 'table')

## End(Not run)

ckanr_deprecated

Deprecated functions in ckanr

Description

These functions still work but will be removed (defunct) in the next version.

Details

- ds_create_dataset(): The functionality of this function is already in another function in
this package. See function resource_create()

ckanr_settings

Get or set ckanr CKAN settings

Description

Get or set ckanr CKAN settings

Usage

ckanr_settings()
get_default_url()
get_default_key()
get_test_url()
get_test_key()
get_test_did()
get_test_rid()
get_test_gid()
get_test_oid()
get_test_behaviour()

Value

ckanr_settings prints your base url, API key (if used), and optional test server settings (URL, API key, a dataset ID and a resource ID). ckanr_setup sets your production and test settings, while get_test_* get each of those respective settings. test_behaviour indicates whether the CKANR test suite will skip ("SKIP") or fail ("FAIL") writing tests in case the configured test CKAN settings don’t work.

See Also

ckanr_setup(), get_default_url(), get_default_key(), get_test_url(), get_test_key(),
get_test_did(), get_test_rid(), get_test_gid(), get_test_oid, get_test_behaviour

Examples

ckanr_settings()

ckanr_setup

Configure default CKAN settings

Description

Configure default CKAN settings

Usage

ckanr_setup(
    url = "https://data.ontario.ca/",
    key = NULL,
    test_url = NULL,
    test_key = NULL,
    test_did = NULL,
    test_rid = NULL,
    test_gid = NULL,
    test_oid = NULL,
    test_behaviour = NULL,
 proxy = NULL
)

Arguments

url         A CKAN URL (optional), default: https://data.ontario.ca
key         A CKAN API key (optional, character)
test_url    (optional, character) A valid CKAN URL for testing purposes
test_key    (optional, character) A valid CKAN API key privileged to create datasets at test_url
test_did    (optional, character) A valid CKAN dataset ID, existing at test_url
test_rid    (optional, character) A valid CKAN resource ID, attached to did
test_gid    (optional, character) A valid CKAN group name at test_url
test_oid    (optional, character) A valid CKAN organization name at test_url
test Behaviour (optional, character) Whether to fail ("FAIL") or skip ("SKIP") writing tests in case of problems with the configured test CKAN.
proxy        an object of class request from a call to curl::proxy()

Details

ckanr_setup() sets CKAN connection details. ckanr's functions default to use the default URL and API key unless specified explicitly.

ckanr's automated tests require a valid CKAN URL, a privileged API key for that URL, plus the IDs of an existing dataset and an existing resource, respectively.

The writing tests (create, update, delete) can fail for two reasons: failures in ckanr's code which the tests aim to detect, or failures in the configured CKAN, which are not necessarily a problem with ckanr's code but prevent the tests to prove otherwise.

Setting test_behaviour to "SKIP" will allow writing tests to skip if the configured test CKAN fails. This is desirable to e.g. test the other functions even if the tester has no write access to a CKAN instance.

Setting test_behaviour to "FAIL" will let the tester find any problems with both the configured test CKAN and the writing functions.

Examples

# CKAN users without admin/editor privileges could run:
ckanr_setup(url = "https://data.ontario.ca/")

# Privileged CKAN editor/admin users can run:
ckanr_setup(url = "https://data.ontario.ca/", key = "some-CKAN-API-key")

# ckanR developers/testers can run:
ckanr_setup(url = "https://data.ontario.ca/", key = "some-CKAN-API-key",
test_url = "http://test-ckan.gov/", test_key = "test-ckan-API-key",
test_did = "test-ckan-dataset-id", test_rid = "test-ckan-resource-id",
test_gid = "test-group-name", test_oid = "test-organization-name"
testBehaviour = "FAIL")

# Not specifying the default CKAN URL will reset the CKAN URL to its default
# "https://data.ontario.ca/"
ckanr_setup()

# set a proxy
ckanr_setup(proxy = crul::proxy("64.251.21.73:8080"))
ckanr_settings()
## run without setting proxy to reset to no proxy
ckanr_setup()
ckanr_settings()

<table>
<thead>
<tr>
<th>ckan_classes</th>
<th>ckanr S3 classes</th>
</tr>
</thead>
</table>

**Description**

ckanr S3 classes

**The classes**

- ckan_package - CKAN package
- ckan_resource - CKAN resource
- ckan_related - CKAN related item

**Coercion**

The functions as.ckan_*() for each CKAN object type coerce something to a S3 class of that type. For example, you can coerce a package ID as a character string into an ckan_package object by calling as.ckan_package(<id>).

**Testing for classes**

To test whether an object is of a particular ckan_* class, there is a is.ckan_*() function for all of the classes listed above. You can use one of those functions to get a logical back, TRUE or FALSE.

**Manipulation**

These are simple S3 classes, basically an R list with an attached class so we can know what to do with the object and have flexible inputs and outputs from functions. You can edit one of these classes yourself by simply changing values in the list.
**Description**

Download a file

**Usage**

```r
ckan_fetch(
  x,
  store = "session",
  path = "file",
  format = NULL,
  key = get_default_key(),
  ...
)
```

**Arguments**

- `x` URL for the file
- `store` One of session (default) or disk. session stores in R session, and disk saves the file to disk.
- `path` if `store="disk"`, you must give a path to store file to
- `format` Format of the file. Required if format is not detectable through file URL.
- `key` A CKAN API key (optional, character)
- `...` Arguments passed on to the function used to read the file, if `store="session"`. See details.

**Details**

The `...` argument can be used to pass additional arguments to the function that actually reads the file. It is only used when `store="session"` and if the file is *not a ZIP file.*

This list shows what function is used to read what file format, so that you can see what additional arguments are available:

- csv: `read.csv`
- xls, xlsx: `read_excel`
- xml: `read_xml`
- html: `read_html`
- json: `fromJSON`
- shp, geojson: `st_read`
- txt: `read.table`
Examples

```r
## Not run:
# CSV file
ckanr_setup("http://datamx.io")
res <- resource_show(id = "6145a539-cbde-4b0d-a3d3-d1a5eb013f5c", as = "table")
head(ckan_fetch(res$url))
ckan_fetch(res$url, "disk", "myfile.csv")

# CSV file, format not available
ckanr_setup("https://ckan0.cf.opendata.inter.prod-toronto.ca")
res <- resource_show(id = "c57c3e1c-20e2-470f-bc82-e39a0264be31", as = "table")
res$url
res$format
head(ckan_fetch(res$url, format = res$format))

# Excel file - requires readxl package
ckanr_setup("http://datamx.io")
res <- resource_show(id = "e883510e-a082-435c-872a-c5b915857ae1", as = "table")
head(ckan_fetch(res$url))

# Excel file, multiple sheets - requires readxl package
ckanr_setup()
res <- resource_show(id = "ce02a1cf-35f1-41df-91d9-11ed1fdd4186", as = "table")
x <- ckan_fetch(res$url)
names(x)
head(x["Mayor - Maire"])  

# XML file - requires xml2 package
# ckanr_setup("http://data.ottawa.ca")
# res <- resource_show(id = "380061c1-6c46-4da6-a01b-7ab0f49a881e", as = "table")
# ckan_fetch(res$url)

# HTML file - requires xml2 package
ckanr_setup("http://open.canada.ca/data/en")
res <- resource_show(id = "80321bac-4283-487c-93bd-c65aca660f5", as = "table")
ckan_fetch(res$url)
library("xml2")
xml_text(xml_find_first(xml_children(ckan_fetch(res$url))[[1]], "title"))

# JSON file, by default reads in to a data.frame for ease of use
ckanr_setup("http://data.surrey.ca")
res <- resource_show(id = "8d07c662-800d-4977-9e3e-5a3d2d1e99ab", as = "table")
head(ckan_fetch(res$url))

# SHP file (spatial data, ESRI format) - requires sf package
```
ckan_info

Get information on a CKAN server

Description

Get information on a CKAN server

Usage

ckan_info(url = get_default_url(), ...)

ckan_version(url = get_default_url(), ...)
Arguments

url Base url to use. Default: https://data.ontario.ca. See also ckanr_setup() and get_default_url(). (required)
... Curl args passed on to curl::verb-GET (optional)

Value

for ckan_info a list with many slots with various info. for ckan_version, list of length two, with actual version as character, and another with version converted to numeric (any dots or letters removed)

Examples

```r
## Not run:
ckan_info()
ckan_info(servers()[5])
ckan_version(servers()[5])
## End(Not run)
```

dashboard_activity_list

*Authorized user's dashboard activity stream*

Description

Authorized user's dashboard activity stream

Usage

```r
dashboard_activity_list(
  limit = 31,
  offset = 0,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

Arguments

- limit (integer) The maximum number of activities to return (optional). Default: 31
- offset (integer) Where to start getting activity items from (optional). Default: 0
- url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
### dashboard_count

**key**
A privileged CKAN API key. Default: your key set with `ckanr_setup`

**as**
(character) One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)

... Curl args passed on to `verb=POST` (optional)

### Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# get activity
(res <- dashboard_activity_list())

## End(Not run)
```

### Description

Number of new activities of an authorized user

### Usage

```r
dashboard_count(
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

### Arguments

- **url**
  Base url to use. Default: https://data.ontario.ca/ See also `ckanr_setup` and `get_default_url`.

- **key**
  A privileged CKAN API key. Default: your key set with `ckanr_setup`

- **as**
  (character) One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)

... Curl args passed on to `verb=POST` (optional)
Details

Important: Activities from the user herself are not counted by this function even though they appear in the dashboard (users don’t want to be notified about things they did themselves).

Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# count
dashboard_count()

## End(Not run)
```

---

**ds_create**

*Add a new table to a datastore*

Description

BEWARE: This function still doesn’t quite work yet.

Usage

```r
ds_create(
    resource_id = NULL,
    resource = NULL,
    force = FALSE,
    aliases = NULL,
    fields = NULL,
    records = NULL,
    primary_key = NULL,
    indexes = NULL,
    url = get_default_url(),
    key = get_default_key(),
    as = "list",
    ...
)
```

Arguments

- **resource_id** (string) Resource id that the data is going to be stored against.
- **resource** (dictionary) Resource dictionary that is passed to `resource_create()`. Use instead of `resource_id` (optional)
- **force** (logical) Set to `TRUE` to edit a read-only resource. Default: `FALSE`
- **aliases** (character) Names for read only aliases of the resource. (optional)
**ds_create_dataset**

**Description**

Datastore - create a new resource on an existing dataset

**fields**
(list) Fields/columns and their extra metadata. (optional)

**records**
(list) The data, eg: ["dob": "2005", "some_stuff": ["a", "b"])] (optional)

**primary_key**
(character) Fields that represent a unique key (optional)

**indexes**
(character) Indexes on table (optional)

**url**
Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.

**key**
A privileged CKAN API key, Default: your key set with ckanr_setup

**as**
(character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)

... Curl args passed on to verb-POST (optional)

**References**


**Examples**

```r
## Not run:
ckanr_setup(url = "https://demo.ckan.org/",
key = getOption("ckan_demo_key"))

# create a package
(res <- package_create("foobarrerrr", author="Jane Doe"))

# then create a resource
file <- system.file("examples", "actinidiaceae.csv", package = "ckanr")
(xx <- resource_create(package_id = res$id,
description = "my resource",
name = "bears",
upload = file,
rcurl = "http://google.com")

ds_create(resource_id = xx$id, records = iris, force = TRUE)
resource_show(xx$id)

## End(Not run)
```

---

**ds_create_dataset**

Datastore - create a new resource on an existing dataset
Usage

ds_create_dataset(
  package_id,
  name,
  path,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)

Arguments

package_id  (character) Existing package ID (required)
name        (character) Name of the new resource (required)
path        (character) Path of the file to add (required)
url          Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key          A privileged CKAN API key. Default: your key set with ckanr_setup
as          (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
...          Curl args passed on to verb-POST (optional)

Details

This function is deprecated - will be defunct in the next version of this package

References

http://docs.ckan.org/en/latest/api/index.html#ckan.logic.action.create.resource_create

Examples

## Not run:
path <- system.file("examples", "actinidiaceae.csv", package = "ckanr")
ckanr_setup(url = "https://demo.ckan.org/", key = "my-demo-ckan-org-api-key")
ds_create_dataset(package_id='testingagain', name="mydata", path = path)

# Testing: see ?ckanr_setup to set test settings
ckanr_setup(test_url = "http://my-ckan.org/",
             test_key = "my-ckan-api-key",
             test_did="an-existing-package-id",
             test_rid="an-existing-resource-id")
ds_create_dataset(package_id=get_test_pid(), name="mydata",
                   path=system.file("examples",
                                    "actinidiaceae.csv",
                                    "permit.csv"))
### ds_search

```
package = "ckanr";
key = get_test_key();
url = get_test_url();
```

## End(Not run)

---

### ds_search

Datastore - search or get a dataset from CKAN datastore

#### Description

Datastore - search or get a dataset from CKAN datastore

#### Usage

```r
ds_search(
    resource_id = NULL,
    filters = NULL,
    q = NULL,
    plain = NULL,
    language = NULL,
    fields = NULL,
    offset = NULL,
    limit = NULL,
    sort = NULL,
    url = get_default_url(),
    key = get_default_key(),
    as = "list",
    ...
)
```

#### Arguments

- **resource_id** (character) id or alias of the resource to be searched against
- **filters** (character) matching conditions to select, e.g. `{"key1": "a", "key2": "b"}` (optional)
- **q** (character) full text query (optional)
- **plain** (character) treat as plain text query (optional, default: TRUE)
- **language** (character) language of the full text query (optional, default: english)
- **fields** (character) fields to return (optional, default: all fields in original order)
- **offset** (numeric) Where to start getting activity items from (optional, default: 0)
- **limit** (numeric) The maximum number of activities to return (optional, default: 100)
- **sort** Field to sort on. You can specify ascending (e.g., score desc) or descending (e.g., score asc), sort by two fields (e.g., score desc, price asc), or sort by a function (e.g., `sum(x_f, y_f)` desc, which sorts by the sum of `x_f` and `y_f` in a descending order). (optional)
ds_search_sql

url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.

key A privileged CKAN API key, Default: your key set with ckanr_setup

as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)

... Curl args passed on to verb=POST (optional)

Details

From the help for this method “The datastore_search action allows you to search data in a resource. DataStore resources that belong to private CKAN resource can only be read by you if you have access to the CKAN resource and send the appropriate authorization.”

Setting plain=FALSE enables the entire PostgreSQL full text search query language. A listing of all available resources can be found at the alias table_metadata full text search query language: http://www.postgresql.org/docs/9.1/static/datatype-textsearch.html#DATATYPE-TSQUERY

Examples

```r
## Not run:
ckanr_setup(url = 'https://data.nhm.ac.uk/')

ds_search(resource_id = '8f0784a6-82dd-44e7-b105-6194e046eb8d')
ds_search(resource_id = '8f0784a6-82dd-44e7-b105-6194e046eb8d',
  as = "table")
ds_search(resource_id = '8f0784a6-82dd-44e7-b105-6194e046eb8d',
  as = "json")
ds_search(resource_id = '8f0784a6-82dd-44e7-b105-6194e046eb8d', limit = 1,
  as = "table")
ds_search(resource_id = '8f0784a6-82dd-44e7-b105-6194e046eb8d', q = "a*")

## End(Not run)
```

Description

Datastore - search or get a dataset from CKAN datastore

Usage

```r
ds_search_sql(
  sql,
  url = get_default_url(),
```
### group_create

Create a group

**Description**

Create a group

**Usage**

```r
group_create(
  name = NULL,
  id = NULL,
  title = NULL,
  description = NULL,
  image_url = NULL,
  type = NULL,
  state = "active",
  approval_status = NULL,
  extras = NULL,
  key = get_default_key(),
  as = "list",
  ...
)
```

**Arguments**

- **sql** (character) A single SQL select statement. (required)
- **url** Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
- **key** A privileged CKAN API key. Default: your key set with ckanr_setup
- **as** (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
- **Curl args passed on to verb-POST** (optional)

**Examples**

```r
## Not run:
url <- "https://demo.ckan.org/"
sql <- 'SELECT * from "f4129802-22aa-4437-b9f9-8a8f3b7b2a53" LIMIT 2'
ds_search_sql(sql, url = url, as = "table")
sql2 <- 'SELECT "Species","Genus","Family" from "f4129802-22aa-4437-b9f9-8a8f3b7b2a53" LIMIT 2'
ds_search_sql(sql2, url = url, as = "table")
## End(Not run)
```
packages = NULL,
groups = NULL,
users = NULL,
url = get_default_url(),
key = get_default_key(),
as = "list",
...
)

Arguments

name (character) the name of the new dataset, must be between 2 and 100 characters long and contain only lowercase alphanumeric characters,
  • and _, e.g. 'warandpeace'

id (character) The id of the group (optional)
title (character) The title of the dataset (optional, default: same as name)
description (character) The description of the group (optional)
image_url (character) The URL to an image to be displayed on the group’s page (optional)
type (character) The type of the dataset (optional), IDatasetForm plugins associate themselves with different dataset types and provide custom dataset handling behaviour for these types
state (character) The current state of the dataset, e.g. 'active' or 'deleted', only active datasets show up in search results and other lists of datasets, this parameter will be ignored if you are not authorized to change the state of the dataset (optional, default: 'active')
approval_status (character) Approval status (optional)
extras (list of dataset extra dictionaries) The dataset’s extras (optional), extras are arbitrary (key: value) metadata items that can be added to datasets, each extra dictionary should have keys 'key' (a string), 'value' (a string)
packages (data.frame) The datasets (packages) that belong to the group, a data.frame, where each row has column 'name' (string, the id or name of the dataset) and optionally 'title' (string, the title of the dataset)
groups (data.frame) The groups to which the dataset belongs (optional), each data.frame row should have one or more of the following columns which identify an existing group: 'id' (the id of the group, string), or 'name' (the name of the group, string), to see which groups exist call group_list()
users (list of dictionaries) The users that belong to the group, a list of dictionaries each with key 'name' (string, the id or name of the user) and optionally 'capacity' (string, the capacity in which the user is a member of the group)
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup
group_delete

Delete a group

Description

Delete a group

Usage

```r
group_delete(id, url = get_default_url(), key = get_default_key(), ...)
```

Arguments

- **id**  
  (character) The id of the group. Required.
- **url**  
  Base url to use. Default: https://data.ontario.ca See also `ckanr_setup()` and `get_default_url()`
- **key**  
  A privileged CKAN API key. Default: your key set with `ckanr_setup`
- **...**  
  Curl args passed on to `curl::verb-POST` (optional)

Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org", key = getOption("ckan_demo_key"))

# create a group
(res <- group_create("fruitloops2", description="A group about fruitloops"))
res$users
res$num_followers

## End(Not run)

```

---

**group_delete**  
Delete a group

### Description

Delete a group

### Usage

```r
group_delete(id, url = get_default_url(), key = get_default_key(), ...)
```

### Arguments

- **id**  
  (character) The id of the group. Required.
- **url**  
  Base url to use. Default: https://data.ontario.ca See also `ckanr_setup()` and `get_default_url()`
- **key**  
  A privileged CKAN API key. Default: your key set with `ckanr_setup`
- **...**  
  Curl args passed on to `curl::verb-POST` (optional)

### Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org", key = getOption("ckan_demo_key"))

# create a group
(res <- group_create("fruitloops2", description="A group about fruitloops"))
res$users
res$num_followers

## End(Not run)

```
group_list

List groups.

Description

List groups.

Usage

group_list(
  offset = 0,
  limit = 31,
  sort = NULL,
  groups = NULL,
  all_fields = FALSE,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)

Arguments

offset  (numeric) Where to start getting activity items from (optional, default: 0)
limit  (numeric) The maximum number of activities to return (optional, default: 31)
sort  Field to sort on. You can specify ascending (e.g., score desc) or descending (e.g.,
  score asc), sort by two fields (e.g., score desc, price asc), or sort by a function
  (e.g., sum(x_f, y_f) desc, which sorts by the sum of x_f and y_f in a descending
  order).
groups  (character) A list of names of the groups to return, if given only groups whose
  names are in this list will be returned
all_fields  (logical) Return full group dictionaries instead of just names. Default: FALSE
url  Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and
  get_default_url.
key  A privileged CKAN API key, Default: your key set with ckanr_setup
group_patch

Update a group’s metadata

Description

Update a group’s metadata

Usage

```r
group_patch(
  x,
  id,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

Arguments

- **x** *(list)* A list with key-value pairs
- **id** *(character)* Resource ID to update (required)
- **url** Base url to use. Default: https://data.ontario.ca/ See also `ckanr_setup` and `get_default_url`.
- **key** A privileged CKAN API key. Default: your key set with `ckanr_setup`
- **as** *(character)* One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
- **...** Curl args passed on to `verb=POST` (optional)

Examples

```r
## Not run:
group_list(limit = 3)
group_list(limit = 3, as = 'json')
group_list(limit = 3, as = 'table')
## End(Not run)
```
Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org", key = getOption("ckan_demo_key"))

# Create a package
(res <- group_create("hello-my-world2"))

# Get a resource
group <- group_show(res$id)
group$title
group$author_email

# Make some changes
x <- list(title = "!hello world!", maintainer_email = "hello@world.com")
group_patch(x, id = grp)

## End(Not run)
```

---

### group_show

Show a package

#### Description

Show a package

#### Usage

```r
group_show(id, include_datasets = TRUE, url = get_default_url(), key = get_default_key(), as = "list", ...)
```

#### Arguments

- **id**: (character) Package identifier.
- **include_datasets**: (logical) Include a list of the group’s datasets. Default: TRUE
- **url**: Base url to use. Default: https://data.ontario.ca/ See also `ckanr_setup` and `get_default_url`.
- **key**: A privileged CKAN API key. Default: your key set with `ckanr_setup`
group_update

Update a group

Description

Update a group

Usage

```r
group_update(
  x,
  id,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

Details

By default the help and success slots are dropped, and only the result slot is returned. You can request raw json with `as = 'json'` then parse yourself to get the help slot.

Examples

```r
## Not run:
res <- group_list()

# via a group name/id
group_show(res[[1]]$name)

# or via an object of class ckan_group
group_show(res[[1]])

# return different data formats
group_show(res[[1]]$name, as = 'json')
group_show(res[[1]]$name, as = 'table')

## End(Not run)
```
license_list

Return the list of licenses available for datasets on the site.

Arguments

- `x` (list) A list with key-value pairs
- `id` (character) Package identifier
- `url` Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
- `key` A privileged CKAN API key. Default: your key set with ckanr_setup
- `as` (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
- `...` Curl args passed on to verb-POST (optional)

Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# First, create a group
grp <- group_create("water-bears2")
group_show(grp)

## update just chosen things
# Make some changes
x <- list(description = "A group about water bears and people that love them")

# Then update the packge
group_update(x, id = grp)

## End(Not run)
```

Description

Return the list of licenses available for datasets on the site.

Usage

```r
license_list(
  id,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```
organization_create

Arguments

- **id** (character) Package identifier.
- **url** Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
- **key** A privileged CKAN API key, Default: your key set with ckanr_setup
- **as** (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
- **...** Curl args passed on to verb=POST (optional)

Examples

```r
## Not run:
license_list()
license_list(as = "table")
license_list(as = "json")
## End(Not run)
```

organization_create Create an organization

Description

Create an organization

Usage

```r
organization_create(
  name = NULL,
  id = NULL,
  title = NULL,
  description = NULL,
  image_url = NULL,
  state = "active",
  approval_status = NULL,
  extras = NULL,
  packages = NULL,
  users = NULL,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

organization_create

Arguments

- **name** (character) the name of the organization, a string between 2 and 100 characters long, containing only lowercase alphanumeric characters, • and _
- **id** (character) the id of the organization (optional)
- **title** (character) the title of the organization (optional)
- **description** (character) the description of the organization (optional)
- **image_url** (character) the URL to an image to be displayed on the organization’s page (optional)
- **state** (character) the current state of the organization, e.g. 'active' or 'deleted’, only active organization show up in search results and other lists of organization, this parameter will be ignored if you are not authorized to change the state of the organization (optional). Default: 'active'
- **approval_status** (character) Approval status
- **extras** The organization’s extras (optional), extras are arbitrary (key: value) metadata items that can be added to organizations, each extra dictionary should have keys 'key' (a string), 'value' (a string) package_relationship_create for the format of relationship dictionaries (optional)
- **packages** (list of dictionaries) the datasets (packages) that belong to the organization, a list of dictionaries each with keys 'name' (string, the id or name of the dataset) and optionally 'title' (string, the title of the dataset)
- **users** (character) the users that belong to the organization, a list of dictionaries each with key 'name' (string, the id or name of the user) and optionally 'capacity' (string, the capacity in which the user is a member of the organization)
- **url** Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.

Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# create an organization
(res <- organization_create("foobar", title = "Foo bars", description = "love foo bars"))
res$name

## End(Not run)
```
organization_delete  Delete an organization

Description
Delete an organization

Usage
organization_delete(
id,
url = get_default_url(),
key = get_default_key(),
as = "list",
...
)

Arguments
id (character) name or id of the organization
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key. Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb-POST (optional)

Value
an empty list on success

Examples
## Not run:
ckanr_setup(url = "https://demo.ckan.org", key=getOption("ckan_demo_key"))

# create an organization
(res <- organization_create("foobar", title = "Foo bars",
                          description = "love foo bars"))

# delete the organization just created
res$id
organization_delete(id = res$id)

## End(Not run)
organization_list  

List organization

Description

List organization

Usage

organization_list(
  order_by = c("name", "package"),
  decreasing = FALSE,
  organizations = NULL,
  all_fields = TRUE,
  limit = 31,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)

Arguments

order_by  (character, only the first element is used). The field to sort the list by, must be name or packages.
decreasing  (logical). Is the sort-order is decreasing or not.
organizations  (character or NULL). A list of names of the organizations to return. NULL returns all organizations.
all_fields  (logical). Return the name or all fields of the object.
limit  (numeric) The maximum number of organizations to return (optional, default: 31)
url  Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key  A privileged CKAN API key, Default: your key set with ckanr_setup
as  (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
  ...
Curl args passed on to verb.POST (optional)

Examples

## Not run:
ckanr_setup(url = "https://demo.ckan.org/"
# list organizations
res <- organization_list()
res[1:2]

# Different data formats
organization_list(as = 'json')
organization_list(as = 'table')

## End(Not run)

---

**organization_purge**

*Purge an organization*

**Description**

IMPORTANT: You must be a sysadmin to purge an organization. Once an organization is purged, it is permanently removed from the system.

**Usage**

```r
organization_purge(
  id,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

**Arguments**

- **id** *(character)* name or id of the organization
- **url** Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
- **key** A privileged CKAN API key. Default: your key set with ckanr_setup
- **as** *(character)* One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
- **...** Curl args passed on to verb=POST (optional)

**Value**

an empty list on success
Examples

```r
## Not run:
ckanr_setup(url = "https://demo.ckan.org", key = getOption("ckan_demo_key"))

# create an organization
(res <- organization_create("foobar", title = "Foo bars",
                          description = "love foo bars"))

# delete the organization just created
res$id
organization_delete(id = res$id)

# purge the organization just deleted
res$id
organization_purge(id = res$id)

## End(Not run)
```

### organization_show

Show an organization

#### Description

Show an organization

#### Usage

```r
organization_show(id,
                   include_datasets = FALSE,
                   url = get_default_url(),
                   key = get_default_key(),
                   as = "list",
                   ...
)
```

#### Arguments

- **id** (character) Organization id or name.
- **include_datasets** (logical). Whether to include a list of the organization datasets
- **url** Base url to use. Default: `https://data.ontario.ca/` See also `ckanr_setup` and `get_default_url`
- **key** A privileged CKAN API key. Default: your key set with `ckanr_setup`
- **as** (character) One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
- **...** Curl args passed on to `verb=POST` (optional)
package_activity_list

Details

By default the help and success slots are dropped, and only the result slot is returned. You can request raw json with `as = 'json'` then parse yourself to get the help slot.

Examples

```r
## Not run:
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

res <- organization_create("stuffthings2")
organization_show(res$id)
## End(Not run)
```

package_activity_list  Return a list of the package’s activity

Description

Return a list of the package’s activity

Usage

```r
package_activity_list(
  id,
  offset = 0,
  limit = 31,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

Arguments

- `id` (character) Package identifier.
- `offset` (numeric) Where to start getting activity items from (optional, default: 0)
- `limit` (numeric) The maximum number of activities to return (optional, default: 31)
- `url` Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
- `key` A privileged CKAN API key. Default: your key set with ckanr_setup
- `as` (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
- `...` Curl args passed on to verb-POST (optional)
package_create

Examples

## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# create a package
(res <- package_create("owls64"))

# list package activity
package_activity_list(res$id)

# make a change
x <- list(maintainer = "Jane Forest")
package_update(x, res)

# list activity again
package_activity_list(res)

# output different data formats
package_activity_list(res$id, as = "table")
package_activity_list(res$id, as = "json")

## End(Not run)

package_create | Create a package

Description

Create a package

Usage

package_create(
  name = NULL,
  title = NULL,
  private = FALSE,
  author = NULL,
  author_email = NULL,
  maintainer = NULL,
  maintainer_email = NULL,
  license_id = NULL,
  notes = NULL,
  package_url = NULL,
  version = NULL,
  state = "active",
  type = NULL,
  resources = NULL,
)
package_create

tags = NULL,
extras = NULL,
relationships_as_object = NULL,
relationships_as_subject = NULL,
groups = NULL,
owner_org = NULL,
url = get_default_url(),
key = get_default_key(),
as = "list",
...
)

Arguments

name (character) the name of the new dataset, must be between 2 and 100 characters long and contain only lowercase alphanumeric characters, - and _, e.g. 'warand-peace'
title (character) the title of the dataset (optional, default: same as name)
private (logical) whether the dataset should be private (optional, default: FALSE), requires a value for owner_org if TRUE
author (character) the name of the dataset’s author (optional)
author_email (character) the email address of the dataset’s author (optional)
maintainer (character) the name of the dataset’s maintainer (optional)
maintainer_email (character) the email address of the dataset’s maintainer (optional)
license_id (license id string) - the id of the dataset’s license, see license_list() for available values (optional)
notes (character) a description of the dataset (optional)
package_url (character) a URL for the dataset’s source (optional)
version (string, no longer than 100 characters) - (optional)
state (character) the current state of the dataset, e.g. 'active' or 'deleted', only active datasets show up in search results and other lists of datasets, this parameter will be ignored if you are not authorized to change the state of the dataset (optional, default: 'active')
type (character) the type of the dataset (optional), IDatasetForm plugins associate themselves with different dataset types and provide custom dataset handling behaviour for these types
resources (list of resource dictionaries) - the dataset’s resources, see resource_create() for the format of resource dictionaries (optional)
tags (list of tag dictionaries) - the dataset’s tags, see tag_create() for the format of tag dictionaries (optional)
extras (list of dataset extra dictionaries) - the dataset’s extras (optional), extras are arbitrary (key: value) metadata items that can be added to datasets, each extra dictionary should have keys 'key' (a string), 'value' (a string)
Delete a package

Description

Delete a package
package_list

Usage

package_delete(id, url = get_default_url(), key = get_default_key(), ...)

Arguments

id (character) The id of the package. Required.
url Base url to use. Default: https://data.ontario.ca See also ckanr_setup() and get_default_url()
key A privileged CKAN API key. Default: your key set with ckanr_setup
... Curl args passed on to crul::verb-POST (optional)

Examples

## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org", key = getOption("ckan_demo_key"))

# create a package
(res <- package_create("lions-bears-tigers"))

# show the package
package_show(res)

# delete the package
package_delete(res)

## End(Not run)

package_list

List datasets.

Description

List datasets.

Usage

package_list(
    offset = 0,
    limit = 31,
    url = get_default_url(),
    key = get_default_key(),
    as = "list",
    ...
)
Arguments

offset (numeric) Where to start getting activity items from (optional, default: 0)

limit (numeric) The maximum number of activities to return (optional, default: 31)

url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.

key A privileged CKAN API key. Default: your key set with ckanr_setup

as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)

... Curl args passed on to verb~POST (optional)

Examples

## Not run:
package_list()
package_list(as = 'json')
package_list(as = 'table')

package_list(url = 'https://data.nhm.ac.uk')

## End(Not run)

---

package_list_current List current packages with resources.

Description

List current packages with resources.

Usage

package_list_current(
  offset = 0,
  limit = 31,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
Arguments

offset (numeric) Where to start getting activity items from (optional, default: 0)
limit (numeric) The maximum number of activities to return (optional, default: 31)
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb-POST (optional)

Examples

```r
## Not run:
package_list_current()
package_list_current(as = 'json')
package_list_current(as = 'table')

## End(Not run)
```

package_patch  Update a package’s metadata

Description

Update a package’s metadata

Usage

```r
package_patch(
  x,
  id = NULL,
  extras = NULL,
  http_method = "GET",
  key = get_default_key(),
  url = get_default_url(),
  as = "list",
  ...
)
```
Arguments

- **x** (list) A list with key-value pairs
- **id** (character) Resource ID to update (optional, required if x does not have an "id" field)
- **extras** (character vector) - the dataset’s extras (optional), extras are arbitrary (key: value) metadata items that can be added to datasets, each extra dictionary should have keys 'key' (a string), 'value' (a string)
- **http_method** (character) which HTTP method (verb) to use; one of "GET" or "POST". Default: "GET"
- **key** A privileged CKAN API key. Default: your key set with `ckanr_setup`
- **url** Base url to use. Default: https://data.ontario.ca/ See also `ckanr_setup` and `get_default_url`.
- **as** (character) One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
- **...** Curl args passed on to verb-POST (optional)

Examples

```r
## Not run:
# Setup
cleanr_setup(url = "https://demo.ckan.org", key = getOption("ckan_demo_key"))

# Create a package
(res <- package_create("hello-world13", author="Jane Doe"))

# Get a resource
res <- package_show(res$id)
res$title

# patch
package_patch(res, extras = list(list(key = "foo", value = "bar")))
unclass(package_show(res))

## End(Not run)
```

package_revision_list  Return a dataset (package’s) revisions as a list of dictionaries.

Description

Return a dataset (package’s) revisions as a list of dictionaries.
package_revision_list

Usage

package_revision_list(
    id,
    url = get_default_url(),
    key = get_default_key(),
    as = "list",
    ...
)

Arguments

id  (character) Package identifier.
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup
as  (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb-POST (optional)

Examples

## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# create a package
(res <- package_create("dolphins"))

# list package revisions
package_revision_list(res$id)

# Make change to the package
x <- list(title = "dolphins and things")
package_patch(x, id = res$id)

# list package revisions
package_revision_list(res$id)

# Output different formats
package_revision_list(res$id, as = "table")
package_revision_list(res$id, as = "json")

## End(Not run)
package_search

Search for packages.

Description

Search for packages.

Usage

```r
package_search(
  q = "*:*",
  fq = NULL,
  sort = NULL,
  rows = NULL,
  start = NULL,
  facet = FALSE,
  facet.limit = NULL,
  facet.field = NULL,
  facet.mincount = NULL,
  include_drafts = FALSE,
  include_private = FALSE,
  use_default_schema = FALSE,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

Arguments

- **q**: Query terms, defaults to `'*'`, or everything.
- **fq**: Filter query, this does not affect the search, only what gets returned.
- **sort**: Field to sort on. You can specify ascending (e.g., `score desc`) or descending (e.g., `score asc`), sort by two fields (e.g., `score desc, price asc`), or sort by a function (e.g., `sum(x_f, y_f) desc`, which sorts by the sum of `x_f` and `y_f` in a descending order).
- **rows**: Number of records to return. Defaults to 10.
- **start**: Record to start at, default to beginning.
- **facet**: (logical) Whether to return facet results or not. Default: `FALSE`.
- **facet.limit**: (numeric) This param indicates the maximum number of constraint counts that should be returned for the facet fields. A negative value means unlimited. Default: 100. Can be specified on a per field basis.
- **facet.field**: (character) This param allows you to specify a field which should be treated as a facet. It will iterate over each Term in the field and generate a facet count using that Term as the constraint. This parameter can be specified multiple times to
`package_search` indicates multiple facet fields. None of the other params in this section will have any effect without specifying at least one field name using this param.

- `facet.mincount` (integer) the minimum counts for facet fields should be included in the results
- `include_drafts` (logical) if TRUE draft datasets will be included. A user will only be returned their own draft datasets, and a sysadmin will be returned all draft datasets. default: FALSE first CKAN version: 2.6.1; dropped from request if CKAN version is older or if CKAN version isn’t available via `ckan_version()`
- `include_private` (logical) if TRUE private datasets will be included. Only private datasets from the user’s organizations will be returned and sysadmins will be returned all private datasets. default: FALSE first CKAN version: 2.6.1; dropped from request if CKAN version is older or if CKAN version isn’t available via `ckan_version()`
- `use_default_schema` (logical) use default package schema instead of a custom schema defined with an IDatasetForm plugin. default: FALSE first CKAN version: 2.3.5; dropped from request if CKAN version is older or if CKAN version isn’t available via `ckan_version()`
- `url` Base url to use. Default: https://data.ontario.ca/ See also `ckanr_setup` and `get_default_url`
- `key` A privileged CKAN API key. Default: your key set with `ckanr_setup`
- `as` (character) One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
- `...` Curl args passed on to `verb-POST` (optional)

### Examples

```r
## Not run:
ckanr_setup(url = "https://demo.ckan.org", key=getOption("ckan_demo_key"))
package_search(q = '*::*')
package_search(q = '*::*', rows = 2, as = 'json')
package_search(q = '*::*', rows = 2, as = 'table')
package_search(q = '*::*', sort = 'score asc')
package_search(q = '*::*', fq = 'num_tags:[3 TO *]')$count
package_search(q = '*::*', fq = 'num_tags:[2 TO *]')$count
package_search(q = '*::*', fq = 'num_tags:[1 TO *]')$count
## End(Not run)
```
package_show

Show a package.

Description

Show a package.

Usage

package_show(
  id,
  use_default_schema = FALSE,
  http_method = "GET",
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)

Arguments

id (character/ckan_package) Package identifier, or a ckan_package object
use_default_schema (logical) Use default package schema instead of a custom schema defined with an IDatasetForm plugin. Default: FALSE
http_method (character) which HTTP method (verb) to use; one of "GET" or "POST". Default: "GET"
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
...

Details

By default the help and success slots are dropped, and only the result slot is returned. You can request raw json with as = 'json' then parse yourself to get the help slot.
## Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/",
    key = getOption("ckan_demo_key"))

# create a package
(res <- package_create("purposeful55"))

# show package
## From the output of package_create
package_show(res)
## Or, from the ID
package_show(res$id)

## get data back in different formats
package_show(res$id, as = 'json')
package_show(res$id, as = 'table')

## use default schema or not
package_show(res$id, TRUE)

## End(Not run)
```

---

### package_update

**Update a package**

#### Description

Update a package

#### Usage

```r
package_update(
    x,
    id,
    http_method = "GET",
    url = get_default_url(),
    key = get_default_key(),
    as = "list",
    ...
)
```

#### Arguments

- **x** (list) A list with key-value pairs
- **id** (character) Package identifier
## ping

Ping a CKAN server to test that it's up or down.

### Description

Ping a CKAN server to test that it's up or down.

### Usage

```r
ping(url = get_default_url(), key = get_default_key(), as = "logical", ...)```

### Arguments

- `http_method` (character) which HTTP method (verb) to use; one of "GET" or "POST". Default: "GET"
- `url` Base url to use. Default: https://data.ontario.ca/ See also `ckanr_setup` and `get_default_url`.
- `key` A privileged CKAN API key. Default: your key set with `ckanr_setup`.
- `as` (character) One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
- `...` Curl args passed on to `verb-POST` (optional)

### Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# Create a package
(pkg <- package_create("hello-world11", author="Jane Doe"))

# Next show the package to see the fields
(res <- package_show(pkg$id))

## update just chosen things
# Make some changes
x <- list(maintainer_email = "heythere2@things.com")

# Then update the packge
package_update(x, pkg$id)

## End(Not run)
```
Related Create

Arguments

url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb=POST (optional)

Examples

## Not run:
ping()
ping(as = "json")

## End(Not run)

related_create Create a related item

Description

Create a related item

Usage

related_create(
  id,
  title,
  type,
  description = NULL,
  related_id = NULL,
  related_url = NULL,
  image_url = NULL,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)

Arguments

id (character) id of package that the related item should be added to. This should be an alphanumeric string. Required.
title (character) Title of the related item. Required.
related_delete

Delete a related item.

Description

Delete a related item.

Usage

related_delete(id, url = get_default_url(), key = get_default_key(), ...)

type (character) The type of the related item. One of API, application, idea, news article, paper, post or visualization. Required.
description (character) description (optional). Optional
related_id (character) An id to assign to the related item. If blank, an ID will be assigned for you. Optional
related_url (character) A url to associated with the related item. Optional
image_url (character) A url to associated image. Optional
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key. Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb-POST (optional)

Examples

## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# create a package
(res <- package_create("hello-mars"))

# create a related item
related_create(res, title = "asdfdaf", type = "idea")

# pipe operations together
package_create("foobbbbabrrrrr") %>%
  related_create(title = "my resource",
                 type = "visualization")

## End(Not run)
related_list

Arguments

id (character) Resource identifier.
url Base url to use. Default: https://data.ontario.ca See also ckanr_setup() and get_default_url().
key A privileged CKAN API key. Default: your key set with ckanr_setup
... Curl args passed on to crul::verb-POST (optional)

Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# create a package and a related item
res <- package_create("hello-venus2") %>%
  related_create(title = "my resource",
                 type = "visualization")

# show the related item
related_delete(res)
## or with id itself:
## related_delete(res$id)

## End(Not run)
```

---

related_list List related items

Description

List related items

Usage

```r
related_list(
  offset = 0,
  limit = 31,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```
related_show

Arguments

offset (numeric) Where to start getting activity items from (optional, default: 0)
limit (numeric) The maximum number of activities to return (optional, default: 31)
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb=POST (optional)

Examples

```r
## Not run:
related_list()
related_list(as = 'json')
related_list(as = 'table')
## End(Not run)
```

related_show Show a related item

Description

Show a related item

Usage

```r
related_show(
  id,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

Arguments

id (character) Related item identifier.
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses
\texttt{jsonlite::fromJSON(..., simplifyDataFrame = TRUE)}, which attempts to
parse data to data.frame's when possible, so the result can vary from a vector,
list or data.frame. (required)

... Curl args passed on to \texttt{verb=POST} (optional)

**Details**

By default the help and success slots are dropped, and only the result slot is returned. You can
request raw json with \texttt{as = 'json'} then parse yourself to get the help slot.

**Examples**

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# create a package and a related item
res <- package_create("hello-pluto2") %>%
  related_create(title = "my resource",
                 type = "visualization")

# show the related item
related_show(res)
related_show(res$id)

# get data back in different formats
related_show(res, as = 'json')
related_show(res, as = 'table')

## End(Not run)
```

---

**related_update**  
*Update a related item*

**Description**

Update a related item

**Usage**

```r
related_update(
  id,
  title,
  type,
  description = NULL,
  related_id = NULL,
  related_url = NULL,
  image_url = NULL,
```
url = get_default_url(),
key = get_default_key(),
as = "list",
...)

Arguments

id (character) id of related item to update. This should be an alphanumeric string. Required.
title (character) Title of the related item. Required.
type (character) The type of the related item. One of API, application, idea, news article, paper, post or visualization. Required.
description (character) description (optional). Optional
related_id (character) An id to assign to the related item. If blank, an ID will be assigned for you. Optional
related_url (character) A url to associated with the related item. Optional
image_url (character) A url to associated image. Optional
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key. Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb-POST (optional)

Examples

## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# create a package and related item
res <- package_create("hello-saturn2") %>%
    related_create(title = "my resource",
                   type = "visualization")

# update the related item
related_update(res, title = "her resource", type = "idea")

## End(Not run)
resource_create

Create a resource

Description

Create a resource

Usage

resource_create(
    package_id = NULL,
    rcurl = NULL,
    revision_id = NULL,
    description = NULL,
    format = NULL,
    hash = NULL,
    name = NULL,
    resource_type = NULL,
    mimetype = NULL,
    mimetype_inner = NULL,
    webstore_url = NULL,
    cache_url = NULL,
    size = NULL,
    created = NULL,
    last_modified = NULL,
    cache_last_updated = NULL,
    webstore_last_updated = NULL,
    upload = NULL,
    extras = NULL,
    http_method = "GET",
    url = get_default_url(),
    key = get_default_key(),
    as = "list",
    ...
)

Arguments

package_id (character) id of package that the resource should be added to. This should be an alphanumeric string. Required.
rcurl (character) url of resource. Required.
revision_id (character) revision id (optional)
description (character) description (optional). Required.
format (character) format (optional)
hash (character) hash (optional)
name (character) name (optional). Required.
resource_type (character) resource type (optional)
mimetype (character) mime type (optional)
mimetype_inner (character) mime type inner (optional)
webstore_url (character) webstore url (optional)
cache_url (character) cache url (optional)
size (integer) size (optional)
created (character) iso date string (optional)
last_modified (character) iso date string (optional)
cache_last_updated (character) iso date string (optional)
webstore_last_updated (character) iso date string (optional)
upload (character) A path to a local file (optional)
extras (list) - the resources’ extra metadata fields (optional)
http_method (character) which HTTP method (verb) to use; one of "GET" or "POST". Default: "GET"
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb-POST (optional)

Examples

## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/",
  key = getOption("ckan_demo_key"))

# create a package
(res <- package_create(“foobarrrr”, author="Jane Doe"))

# then create a resource
file <- system.file("examples", "actinidiaceae.csv", package = "ckanr")
(xx <- resource_create(package_id = res$id,
  description = "my resource",
  name = "bears",
  upload = file,
  extras = list(species = "grizzly"),
  rcurl = "http://google.com"
))
Delete a resource.

**Description**

Delete a resource.

**Usage**

```r
resource_delete(id, url = get_default_url(), key = get_default_key(), ...)
```

**Arguments**

- `id` (character) Resource identifier.
- `url` Base url to use. Default: https://data.ontario.ca See also `ckanr_setup()` and `get_default_url()`.
- `key` A privileged CKAN API key. Default: your key set with `ckanr_setup`
- `...` Curl args passed on to `crl::verb-POST` (optional)

**Examples**

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = Sys.getenv("CKAN_DEMO_KEY"))

# create a package
(res <- package_create("yellow9"))

# then create a resource
file <- system.file("examples", "actinidiaceae.csv", package = "ckanr")
(xx <- resource_create(res,
                   description = "my resource",
                   name = "bears",
                   upload = file,
                   extras = list(my_extra = "some value"),
                   rcurl = "http://google.com")

# delete the resource
resource_delete(xx)
```
## End(Not run)

---

### resource_patch

**Update a resource’s metadata**

**Description**

Update a resource’s metadata

**Usage**

```r
resource_patch(
  x,
  id,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

**Arguments**

- `x` (list) A list with key-value pairs
- `id` (character) Resource ID to update (required)
- `url` Base url to use. Default: https://data.ontario.ca/ See also `ckanr_setup` and `get_default_url`.
- `key` A privileged CKAN API key, Default: your key set with `ckanr_setup`.
- `as` (character) One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
- `...` Curl args passed on to `verb-POST` (optional)

**Examples**

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org", key = getOption("ckan_demo_key"))

# create a package
(res <- package_create("twist", author="Alexandria"))

# then create a resource
file <- system.file("examples", "actinidiaceae.csv", package = "ckanr")
(xx <- resource_create(package_id = res$id, description = "my resource"))
```
# Get a resource
res <- resource_show(xx$id)
res$description

# Make some changes
x <- list(description = "My newer description")
z <- resource_patch(x, id = res)
z$description

# Add an extra key:value pair
extra <- list("extra_key" = "my special value")
zz <- resource_patch(extra, id = res)
zz$extra_key

## End(Not run)

---

**resource_search**

**Search for resources.**

## Description
Search for resources.

## Usage

```r
resource_search(
  q,
  sort = NULL,
  offset = NULL,
  limit = NULL,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

## Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>q</code></td>
<td>Query terms. It is a string of the form <code>field:term</code> or a vector/list of strings, each of the same form. Within each string, <code>field</code> is a field or extra field on the Resource domain object. If <code>field</code> is hash, then an attempt is made to match the <code>term</code> as a prefix of the Resource.hash field. If <code>field</code> is an extra field, then an attempt is made to match against the extra fields stored against the Resource.</td>
</tr>
<tr>
<td><code>sort</code></td>
<td>Field to sort on. You can specify ascending (e.g., score desc) or descending (e.g., score asc), sort by two fields (e.g., score desc, price asc), or sort by a function (e.g., sum(x_f, y_f) desc, which sorts by the sum of x_f and y_f in a descending order).</td>
</tr>
<tr>
<td><code>offset</code></td>
<td>Record to start at, default to beginning.</td>
</tr>
</tbody>
</table>
resource_show

Show a resource.

Description
Show a resource.

Usage

resource_show(
  id,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)

Arguments

id (character) Resource identifier.
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup

Examples

## Not run:
resource_search(q = 'name:var
resource_search(q = 'name:var', as = 'json')
resource_search(q = 'name:var', as = 'table')
resource_search(q = 'name:var', limit = 2, as = 'table')
resource_search(q=c("description:encoded", "name:No.2"),url='demo.ckan.org')

## End(Not run)
resource_update

### Description

This function can be used to update a resource’s file attachment and "extra" metadata fields. Any update will also set the metadata key "last_updated". Other metadata, such as name or description, are not updated.

The new file must exist on a local path. R objects have to be written to a file, e.g. using tempfile() - see example.

For convenience, CKAN base url and API key default to the global options, which are set by ckanr_setup.

**as** (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)

... Curl args passed on to verb=POST (optional)

**Examples**

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/",
key = Sys.getenv("CKAN_DEMO_KEY"))

# create a package
(res <- package_create("yellow7"))

# then create a resource
file <- system.file("examples", "actinidiaceae.csv", package = "ckanr")
(xx <- resource_create(package_id = res$id,
    description = "my resource",
    name = "bears",
    upload = file,
    rcurl = "http://google.com"
))

# show the resource
resource_show(xx$id)

# eg. from the NHM CKAN store
resource_show(id = "05ff2255-c38a-40c9-b657-4ccb55ab2feb",
    url = "http://data.nhm.ac.uk")

## End(Not run)
```
Usage

```r
resource_update(
  id,
  path = NULL,
  extras = list(),
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

Arguments

- **id** (character) Resource ID to update (required)
- **path** (character) Local path of the file to upload (optional)
- **extras** (list) - the resources’ extra metadata fields (optional)
- **url** Base url to use. Default: https://data.ontario.ca/ See also `ckanr_setup` and `get_default_url`.
- **key** A privileged CKAN API key. Default: your key set with `ckanr_setup`.
- **as** (character) One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
- **...** Curl args passed on to `verb-POST` (optional)

Value

The HTTP response from CKAN, formatted as list (default), table, or JSON.

References

http://docs.ckan.org/en/latest/api/index.html#ckan.logic.action.create.resource_create

Examples

```r
## Not run:
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# Get file
path <- system.file("examples", "actinidiaceae.csv", package = "ckanr")

# Create package, then a resource within that package
(res <- package_create("newpackage10"))
(xx <- resource_create(package_id = res$id,
  description = "my resource",
  name = "bears",
  upload = path,
  rcurl = "http://google.com"
)
```
## Modify dataset, here lowercase strings in one column

```r
dat <- read.csv(path, stringsAsFactors = FALSE)
dat$Family <- tolower(dat$Family)
newpath <- tempfile(fileext = "csv")
write.csv(dat, file = newpath, row.names = FALSE)
```

## Upload modified dataset

++ Directly from output of `resource_create`

```r
resource_update(xx, path=newpath)
```

++ or from the resource id

```r
resource_update(xx$id, path=newpath)
```

++ optionally include extra tags

```r
resource_update(xx$id, path=newpath,
    extras = list(some="metadata"))
```

## Update a resource's extra tags

++ add extra tags without uploading a new file

```r
resource_update(id,
    extras = list(some="metadata"))
```

++ or remove all extra tags

```r
resource_update(id, extras = list())
```

####

# Using default settings

```r
ckanr_setup(url = "http://demo.ckan.org/", key = "my-demo-ckan-org-api-key")
path <- system.file("examples", "actinidiaceae.csv", package = "ckanr")
resource_update(id="an-existing-resource-id", path = path)
```

# Using an R object written to a tempfile, and implicit CKAN URL and API key

```r
write.csv(data <- installed.packages(), path <- tempfile(fileext = ".csv"))
ckanr_setup(url = "http://demo.ckan.org/", key = "my-demo-ckan-org-api-key")
resource_update(id="an-existing-resource-id", path = path)
```

# Testing: see ?ckanr_setup to set default test CKAN url, key, package id

```r
ckanr_setup(test_url = "http://my-ckan.org/",
    test_key = "my-ckan-api-key",
    test_did = "an-existing-package-id",
    test_rid = "an-existing-resource-id")
resource_update(id = get_test_rid(),
    path = system.file("examples",
        "actinidiaceae.csv",
        package = "ckanr"),
    key = get_test_key(),
    url = get_test_url())
```

# other file formats

++ html

```r
path <- system.file("examples", "mapbox.html", package = "ckanr")
```
# Create package, then a resource within that package
(res <- package_create("mappkg"))
(xx <- resource_create(package_id = res$id,
    description = "a map, yay",
    name = "mapyay",
    upload = path,
    rcurl = "http://google.com"
))
browseURL(xx$url)

# Modify dataset, here lowercase strings in one column
dat <- readLines(path)
dat <- sub("-111.06", "-115.06", dat)
newpath <- tempfile(fileext = ".html")
cat(dat, file = newpath, sep = "\n")

# Upload modified dataset
## Directly from output of resource_create
(xxx <- resource_update(xx, path=newpath))
browseURL(xxx$url)

## End(Not run)

---

**revision_list**

Return a list of the IDs of the site’s revisions.

**Description**

Return a list of the IDs of the site’s revisions.

**Usage**

```r
revision_list(
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```

**Arguments**

- `url`  
  Base url to use. Default: https://data.ontario.ca/ See also **ckanr_setup** and **get_default_url**.

- `key`  
  A privileged CKAN API key, Default: your key set with **ckanr_setup** (character) One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)

- `as`  
  Curl args passed on to verb=POST (optional)
servers

## Not run:
revision_list()
revision_list(as = "table")
revision_list(as = "json")

## End(Not run)

<table>
<thead>
<tr>
<th>servers</th>
<th>CKAN server URLs and other info</th>
</tr>
</thead>
</table>

### Description
CKAN server URLs and other info

### Usage
servers()

### Details
Comes from the links at https://ckan.org/about/instances/

There were a number of other URLs for CKAN instances in the CKAN URL above, but some sites are now gone completely, or if they do exist, I can’t figure out how to get access to the CKAN API on their instance.

### Examples
## Not run:
servers()
ckan_info(servers()[5])

# what version is each CKAN server running
out <- lapply(servers()[1:6], function(w) {
  cat(w, sep='\n')
  ckan_info(w)
})
vapply(out, "[[", "", "ckan_version")

## End(Not run)
**src_ckan**  
*Connect to CKAN with dplyr*

**Description**

Use `src_ckan` to connect to an existing CKAN instance and `tbl` to connect to tables within that CKAN based on the DataStore Data API.

**Usage**

```r
can_ckan(url)
```

**Arguments**

- `url`, the url of the CKAN instance

**Examples**

```r
## Not run:
library("dplyr")

# To connect to a CKAN instance first create a src:
my_ckan <- src_ckan("http://demo.ckan.org")

# List all tables in the CKAN instance
db_list_tables(my_ckan$con)

# Then reference a tbl within that src
my_tbl <- tbl(src = my_ckan, name = "44d7de5f-7029-4f3a-a812-d7a70895da7d")

# You can use the dplyr verbs with my_tbl. For example:
dplyr::filter(my_tbl, GABARITO == "C")

## End(Not run)
```

**tag_create**  
*Create a tag*

**Description**

IMPORTANT: You must be a sysadmin to create vocabulary tags.
tag_list

Usage

tag_create(
    name,
    vocabulary_id,
    url = get_default_url(),
    key = get_default_key(),
    as = "list",
    ...
)

Arguments

name (character) The name for the new tag, a string between 2 and 100 characters long containing only alphanumeric characters and -, _, and ., e.g. 'Jazz'

vocabulary_id (character) The id of the vocabulary that the new tag should be added to, e.g. the id of vocabulary 'Genre'

url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.

key A privileged CKAN API key, Default: your key set with ckanr_setup

as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)

... Curl args passed on to verb-POST (optional)

Examples

## Not run:
ckanr_setup(url = "https://demo.ckan.org/",
            key = Sys.getenv("CKAN_DEMO_KEY"))
tag_create(name = "TestTag1", vocabulary_id = "Testing1")

## End(Not run)

tag_list

List tags.

Description

List tags.
Usage

tag_list(
    query = NULL,
    vocabulary_id = NULL,
    all_fields = FALSE,
    url = get_default_url(),
    key = get_default_key(),
    as = "list",
    ...
)

Arguments

query (character) A tag name query to search for, if given only tags whose names contain this string will be returned

vocabulary_id (character) The id or name of a vocabulary, if given, only tags that belong to this vocabulary will be returned

all_fields (logical) Return full tag dictionaries instead of just names. Default: FALSE

url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.

key A privileged CKAN API key, Default: your key set with ckanr_setup

as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)

... Curl args passed on to verb-POST (optional)

Examples

## Not run:
# list all tags
tag_list()

# search for a specific tag
tag_list(query = 'aviation')

# all fields
tag_list(all_fields = TRUE)

# give back different data formats
tag_list('aviation', as = 'json')
tag_list('aviation', as = 'table')

## End(Not run)
tag_search

Search tags.

Description
Search tags.

Usage

tag_search(
    query = NULL,
    vocabulary_id = NULL,
    offset = 0,
    limit = 31,
    url = get_default_url(),
    key = get_default_key(),
    as = "list",
    ...
)

Arguments

query (character) A tag name query to search for, if given only tags whose names contain this string will be returned; one or more search strings

vocabulary_id (character) The id or name of a vocabulary, if give only tags that belong to this vocabulary will be returned

offset (numeric) Where to start getting activity items from (optional, default: 0)

limit (numeric) The maximum number of activities to return (optional, default: 31)

url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.

key A privileged CKAN API key. Default: your key set with ckanr_setup

as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)

... Curl args passed on to verb-POST (optional)

Examples

## Not run:
tag_search(query = 'ta')
tag_search(query = c('ta', 'al'))

# different formats back
tag_search(query = 'ta', as = 'json')
tag_search(query = 'ta', as = 'table')

## End(Not run)

tag_show

---

**Show a tag.**

description

Show a tag.

usage

tag_show(id, include_datasets = FALSE, url = get_default_url(), key = get_default_key(), as = "list", ...)

arguments

- id: (character) The name or id of the tag
- include_datasets: include a list of up to 1000 of the tag’s datasets. Limit 1000 datasets, use `package_search()` for more. (optional, default: FALSE)
- url: Base url to use. Default: https://data.ontario.ca/ See also `ckanr_setup` and `get_default_url`.
- key: A privileged CKAN API key, Default: your key set with `ckanr_setup`
- as: (character) One of list (default), table, or json. Parsing with table option uses `jsonlite::fromJSON(..., simplifyDataFrame = TRUE)`, which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)
- ...: Curl args passed on to `verb-POST` (optional)

examples

```r
## Not run:
# get tags with tag_list()
tags <- tag_list()
tags[[30]]$id

# show a tag
(x <- tag_show(tags[[30]]$id))
```
# give back different data formats
tag_show(tags[[30]]$id, as = 'json')
tag_show(tags[[30]]$id, as = 'table')

## End(Not run)

user_activity_list  
Return a list of a user’s activities

Description

Return a list of a user’s activities

Usage

user_activity_list(
  id,
  offset = 0,
  limit = 31,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>(character) User identifier.</td>
</tr>
<tr>
<td>offset</td>
<td>(numeric) Where to start getting activity items from (optional, default: 0)</td>
</tr>
<tr>
<td>limit</td>
<td>(numeric) The maximum number of activities to return (optional, default: 31)</td>
</tr>
<tr>
<td>url</td>
<td>Base url to use. Default: <a href="https://data.ontario.ca/">https://data.ontario.ca/</a> See also ckanr_setup and get_default_url.</td>
</tr>
<tr>
<td>key</td>
<td>A privileged CKAN API key. Default: your key set with ckanr_setup</td>
</tr>
<tr>
<td>as</td>
<td>(character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame’s when possible, so the result can vary from a vector, list or data.frame. (required)</td>
</tr>
</tbody>
</table>

Examples

## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/",
key = getOption("ckan_demo_key"))
# list package activity
user_activity_list('skottie')

# input a ckan_user object
(x <- user_show('skottie'))
user_activity_list(x)

# output different data formats
user_activity_list(x, as = "table")
user_activity_list(x, as = "json")

## End(Not run)

---

**user_create**  
*Create a user.*

**Description**
Create a user.

**Usage**

```r
user_create(
  name,  
  email,  
  password,  
  id = NULL,  
  fullname = NULL,  
  about = NULL,  
  openid = NULL,  
  url = get_default_url(),  
  key = get_default_key(),  
  as = "list",  
  ...
)
```

**Arguments**

- **name** (character) the name of the new user, a string between 2 and 100 characters in length, containing only lowercase alphanumeric characters, - and _ (required)
- **email** (character) the email address for the new user (required)
- **password** (character) the password of the new user, a string of at least 4 characters (required)
- **id** (character) the id of the new user (optional)
- **fullname** (character) user full name
- **about** (character) a description of the new user (optional)
user_delete

Delete a user.

Description

Delete a user.

Usage

```r
user_delete(
  id, url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```
Arguments

id (character) the id of the new user (required)
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key. Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb=POST (optional)

References

http://docs.ckan.org/en/latest/api/index.html#ckan.logic.action.delete.user_delete

Examples

## Not run:
# Setup
key = "824e7c50-9577-4bfa-bf32-246ebed1a8a2")

# create a user
res <- user_delete(name = 'stacy', email = "stacy@aaaaa.com",
password = "helloworld")

# then, delete a user
user_delete(id = "stacy")

## End(Not run)

__user_followee_count__ 
Return a a user’s follower count

Description

Return a a user’s follower count

Usage

```
user_followee_count(
  id,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```
user_follower_count

```
Arguments

id  (character) User identifier.
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb-POST (optional)

Examples

```## Not run:

# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckanr_setup"))

# list package activity
user_follower_count('sckottie')

# input a ckan_user object
(x <- user_show('sckottie'))
user_follower_count(x)

# output different data formats
user_follower_count(x, as = "table")
user_follower_count(x, as = "json")
```

## End(Not run)

user_follower_count  Return a a user’s follower count

Description

Return a a user’s follower count

Usage

```
user_follower_count(
  id,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...)  
)  
```
user_follower_list

Return a user’s follower count

Description

Return a user’s follower count

Usage

user_follower_list(
  id,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)

Arguments

id  (character) User identifier.
url Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key A privileged CKAN API key, Default: your key set with ckanr_setup
as (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
... Curl args passed on to verb-POST (optional)

Examples

## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# list package activity
user_follower_count('sckottie')

# input a ckan_user object
(x <- user_show('sckottie'))
user_follower_count(x)

# output different data formats
user_follower_count(x, as = "table")
user_follower_count(x, as = "json")

## End(Not run)
user_list

Return a list of the site’s user accounts.

Description

Return a list of the site’s user accounts.

Usage

```r
user_list(
  q = NULL,
  order_by = NULL,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
```
Arguments

q  (character) Restrict the users returned to those whose names contain a string
order_by  (character) Which field to sort the list by (optional, default: 'name')
url  Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
key  A privileged CKAN API key, Default: your key set with ckanr_setup
as  (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
...  Curl args passed on to verb=POST (optional)

Examples

## Not run:
# all users
user_list()

# search for a user
user_list(q = "j")

# different data formats
user_list(q = "j", as = "table")
user_list(q = "j", as = "json")

## End(Not run)

---

user_show  Show a user.

Description

Show a user.

Usage

user_show(
  id,
  user_obj = NULL,
  include_datasets = FALSE,
  include_num_followers = FALSE,
  url = get_default_url(),
  key = get_default_key(),
  as = "list",
  ...
)
Arguments

- **id**: (character) Package identifier.
- **user_obj**: (user dictionary) The user dictionary of the user (optional)
- **include_datasets**: (logical) Include a list of datasets the user has created. If it is the same user or a sysadmin requesting, it includes datasets that are draft or private. (optional, default:False, limit:50)
- **include_num_followers**: (logical) Include the number of followers the user has (optional, default:False)
- **url**: Base url to use. Default: https://data.ontario.ca/ See also ckanr_setup and get_default_url.
- **key**: A privileged CKAN API key. Default: your key set with ckanr_setup
- **as**: (character) One of list (default), table, or json. Parsing with table option uses jsonlite::fromJSON(..., simplifyDataFrame = TRUE), which attempts to parse data to data.frame's when possible, so the result can vary from a vector, list or data.frame. (required)
- **...**: Curl args passed on to verb=POST (optional)

Examples

```r
## Not run:
# Setup
ckanr_setup(url = "https://demo.ckan.org/", key = getOption("ckan_demo_key"))

# show user
user_show('sckottie')

# include datasets
user_show('sckottie', include_datasets = TRUE)

# include datasets
user_show('sckottie', include_num_followers = TRUE)

## End(Not run)
```
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