

# Package: rhdx (via r-universe)

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**Title** A Client for the Humanitarian Data Exchange platform API

**Description** Client for the Humanitarian Data Exchange (HDX) platform API <<https://data.humdata.org>>. Allows to search and download HDX datasets into R.

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---

<i>.list_datasets</i>	<i>List datasets</i>
-----------------------	----------------------

---

## Description

List datasets

## Usage

```
.list_datasets(limit = NULL, offset = NULL, configuration = NULL)

list_datasets(limit = NULL, offset = NULL, configuration = NULL)
```

## Arguments

limit	integer; limit
offset	integer; offset
configuration	a Configuration object

## Value

A vector of datasets names

## Examples

```
## Not run:
# Setting the config to use HDX default server
set_rhdx_config()
list_datasets(limit = 10L)

## End(Not run)
```

---

**.list\_organizations**    *List HDX organization*

---

## Description

List HDX organization

## Usage

```
.list_organizations(
  sort = "name asc",
  all_fields = FALSE,
  include_dataset_count = TRUE,
  include_groups = FALSE,
  include_user = FALSE,
  include_tags = FALSE,
  configuration = NULL,
  ...
)

list_organizations(
  sort = "name asc",
  all_fields = FALSE,
  include_dataset_count = TRUE,
  include_groups = FALSE,
  include_user = FALSE,
  include_tags = FALSE,
  configuration = NULL,
  ...
)
```

## Arguments

sort	Character how to sort the results. Default is "name asc"
all_fields	Logical, include all fields
include_dataset_count	Logical include count in the result
include_groups	Logical, whether or not to include locations
include_user	Logical, whether or not to include user
include_tags	Logical whether or not to include tags
configuration	Configuration
...	extra paramaters

## Value

A list of organizations on HDX

---

authorized_tags	<i>List all authorized tags in HDX</i>
-----------------	--

---

**Description**

List all authorized tags in HDX

**Usage**

```
authorized_tags(configuration = NULL)
```

**Arguments**

configuration Configuration

**Value**

A vector of character, the authorized tags name

**Examples**

```
## Not run:  
authorized_tags()  
  
## End(Not run)
```

---

browse.Dataset	<i>Browse a HDX object</i>
----------------	----------------------------

---

**Description**

Browse a HDX object

**Usage**

```
## S3 method for class 'Dataset'  
browse(x, ...)  
  
## S3 method for class 'Organization'  
browse(x, ...)  
  
## S3 method for class 'HDXResource'  
browse(x, ...)  
  
## S3 method for class 'HDXUser'  
browse(x, ...)
```

```
browse(x, ...)

## Default S3 method:
browse(x, ...)
```

**Arguments**

x	an HDX object
...	Extra parameters

**Value**

Character Tags of the dataset

**Examples**

```
## Not run:
# Setting the config to use HDX default server
set_rhdx_config()
res <- search_dataset(rows = 3L)
browse(res[[1]])

## End(Not run)
```

count_datasets	<i>Count all datasets on HDX</i>
----------------	----------------------------------

**Description**

Count all datasets on HDX

**Usage**

```
count_datasets(configuration = NULL)
```

**Arguments**

configuration an HDX Configuration object

**Value**

An integer, the number of datasets

---

create\_rhdx\_config      *Create an HDX configuration object*

---

### Description

Create and HDX configuration object

### Usage

```
create_rhdx_config(  
    hdx_site = "prod",  
    hdx_key = NULL,  
    read_only = TRUE,  
    hdx_config = NULL,  
    hdx_config_file = NULL  
)
```

### Arguments

hdx_site	Character to specify which HDX server you want to use. Default to "prod".
hdx_key	Character for the CKAN API key, it is required to push data into HDX
read_only	Logical if FALSE and hdx_key provided is correct you can push metadata and data to HDX
hdx_config	List of HDX configuration
hdx_config_file	Character, path of the HDX config file in JSON and YAML format

### Value

An HDX Configuration object

---

delete\_resource      *Delete resource from dataset*

---

### Description

Delete resource from dataset

### Usage

```
delete_resource(dataset, index)
```

**Arguments**

dataset	Dataset the dataset from which we one to remove the resource
index	Integer the index of the resource to be removed

**Details**

Delete resource from dataset

**Value**

Dataset the dataset without the resource

---

**delete\_resources**      *Delete all resource from dataset*

---

**Description**

Delete all resource from dataset

**Usage**

`delete_resources(dataset)`

**Arguments**

dataset	A Dataset, the dataset to remove
---------	----------------------------------

**Details**

Delete all resources from dataset

**Value**

Dataset without resources

---

delete_rhdx_config	<i>Delete rhdx config</i>
--------------------	---------------------------

---

### Description

Delete the configuration settings for using rhdx.

### Usage

```
delete_rhdx_config()
```

### Details

Delete HDX config

### Value

None

### Examples

```
## Not run:  
# Setting the config to use HDX default server  
set_rhdx_config(hdx_site = "prod")  
get_rhdx_config()  
  
delete_rhdx_config()  
get_rhdx_config()  
  
## End(Not run)
```

---

download_resource	<i>Download an HDX resource</i>
-------------------	---------------------------------

---

### Description

Download an HDX resource into a specific folder

### Usage

```
download_resource(  
  resource,  
  folder = NULL,  
  filename = NULL,  
  quiet = FALSE,  
  force = FALSE,  
  ...  
)
```

**Arguments**

resource	Resource, an HDX resource
folder	character, path of the directory where you will store the data
filename	(character), name of the file you will download
quiet	(logical), no progress bar from download (default = FALSE)
force	(logical) force download (default = FALSE)
...	extra paramaters

**Value**

Resource

**Examples**

```
## Not run:
#Setting the config to use HDX default server
res <- read_resource("98aa1742-b5d3-40c3-94c6-01e31ded6e84")
download_resource(res, folder = "/tmp")

## End(Not run)
```

get\_dataset\_date      *Get the Dataset date***Description**

Date of dataset

**Usage**

get\_dataset\_date(dataset)

**Arguments**

dataset	Dataset
---------	---------

**Value**

Date, date of the dataset

**Examples**

```
## Not run:
# Setting the config to use HDX default server
set_rhdx_config()
res <- search_dataset(rows = 3L)
get_dataset_date(res[[1]])

## End(Not run)
```

---

get\_locations\_names     *Dataset locations name*

---

**Description**

Gets locations name from the datasets

**Usage**

```
get_locations_names(dataset)
```

**Arguments**

dataset              Dataset

**Value**

Character locations of the dataset

**Examples**

```
## Not run:  
# Setting the config to use HDX default server  
set_rhdx_config()  
res <- search_dataset(rows = 3L)  
get_location_names(res[[1]])  
  
## End(Not run)
```

---

get\_organization\_name     *Dataset organization name*

---

**Description**

Get the organization sharing the data

**Usage**

```
get_organization_name(dataset)
```

**Arguments**

dataset              Dataset

**Value**

Character The name of the organization sharing the data

## Examples

```
## Not run:
# Setting the config to use HDX default server
set_rhdx_config()
res <- search_dataset(rows = 3L)
get_organization_name(res[[1]])

## End(Not run)
```

get\_resource      *Add resource to dataset*

## Description

Add resource to dataset

## Usage

```
get_resource(dataset, index)
```

## Arguments

dataset	Dataset
index	integer; resource position in the dataset

## Value

Resource

get\_resources      *Add resource to dataset*

## Description

Add resource to dataset

## Usage

```
get_resources(dataset, pattern = NULL, format = NULL)
```

## Arguments

dataset	Dataset
pattern	regex pattern in resource name
format	format of the resources

**Value**

```
resource_list
```

---

```
get_resources_formats  Dataset resources format
```

---

**Description**

Gets format of all resources from the datasets

**Usage**

```
get_resources_formats(dataset)
```

**Arguments**

dataset              Dataset

**Value**

Character Format of the resources

**Examples**

```
## Not run:  
# Setting the config to use HDX default server  
set_rhdx_config()  
res <- search_dataset(rows = 3L)  
get_resources_formats(res[[1]])  
  
## End(Not run)
```

---

```
get_resource_dataset  Get the dataset containing the resource
```

---

**Description**

Get the dataset containing the resource

**Usage**

```
get_resource_dataset(resource)
```

**Arguments**

resource              Resource, an HDX resource

**Value**

a Dataset, the dataset containing the resource

`get_resource_format`     *Get the file format of the resource*

**Description**

Get the file format of the resource

**Usage**

```
get_resource_format(resource)
```

**Arguments**

<code>resource</code>	Resource, an HDX resource
-----------------------	---------------------------

**Value**

A character, the format of the resource

`get_resource_layers`     *List layers available in spatial resources on HDX*

**Description**

List layers available in spatial resources on HDX

**Usage**

```
get_resource_layers(
  resource,
  format = NULL,
  download_folder = NULL,
  quiet = TRUE
)
```

**Arguments**

<code>resource</code>	Resource, an HDX resource
<code>format</code>	character; file format
<code>download_folder</code>	Character, path of the directory where you will store the data
<code>quiet</code>	Logical, no progress bar from download (default = FALSE)

**Value**

the layers name

---

get\_resource\_sheets     *Get the names of the sheets of XLS(X) resources*

---

**Description**

Get the names of the sheets of XLS(X) resources

**Usage**

```
get_resource_sheets(  
  resource,  
  format = NULL,  
  download_folder = NULL,  
  quiet = TRUE  
)
```

**Arguments**

resource	Resource, an HDX resource
format	character; file format
download_folder	character, path of the directory where you will store the data
quiet	logical, no progress bar from download (default = FALSE)

**Value**

the names of the sheets of XLS(X) resources

---

get\_tags\_names     *Dataset tags name*

---

**Description**

Gets dataset tags name

**Usage**

```
get_tags_names(dataset)
```

**Arguments**

dataset	Dataset
---------	---------

**Value**

Character Tags of the dataset

**Examples**

```
## Not run:
# Setting the config to use HDX default server
set_rhdx_config()
res <- search_dataset(rows = 3L)
get_tags_names(res[[1]])

## End(Not run)
```

**HDXConfig**

*HDX Configuration*

**Description**

HDX Configuration  
HDX Configuration

**Details**

HDX Configuration allow to connect to an HDX server and setup project where you can interact with the HDX platform

**Public fields**

data all info in list.

**Methods****Public methods:**

- [HDXConfig\\$new\(\)](#)
- [HDXConfig\\$get\\_credentials\(\)](#)
- [HDXConfig\\$set\\_read\\_only\(\)](#)
- [HDXConfig\\$set\\_hdx\\_key\(\)](#)
- [HDXConfig\\$get\\_hdx\\_key\(\)](#)
- [HDXConfig\\$set\\_hdx\\_site\(\)](#)
- [HDXConfig\\$get\\_hdx\\_site\(\)](#)
- [HDXConfig\\$get\\_hdx\\_site\\_url\(\)](#)
- [HDXConfig\\$remoteclient\(\)](#)
- [HDXConfig\\$call\\_action\(\)](#)
- [HDXConfig\\$read\(\)](#)
- [HDXConfig\\$setup\(\)](#)

- HDXConfig\$delete()
- HDXConfig\$get\_global\_config()
- HDXConfig\$general\_statistics()
- HDXConfig\$as\_list()
- HDXConfig\$print()
- HDXConfig\$clone()

**Method new():** Create a new Configuration object.

*Usage:*

```
HDXConfig$new(
  hdx_site = "prod",
  hdx_key = NULL,
  hdx_config = NULL,
  hdx_config_file = NULL,
  read_only = TRUE,
  user_agent = NULL
)
```

*Arguments:*

hdx\_site character the server instance to use  
 hdx\_key character, the HDX API key  
 hdx\_config configuration in a list  
 hdx\_config\_file a character value config file. default is the config supplied in the package  
 read\_only a logical value indicating if you want to just read or be also able to write on the HDX server. You will need a API key to write.  
 user\_agent a character value, User agent

*Returns:* A new Configuration object.

**Method get\_credentials():** Configuration credentials when using a HDX API key

*Usage:*

```
HDXConfig$get_credentials()
```

*Returns:* the username and password associated to the HDX API key

**Method set\_read\_only():** Create or revoke read only status

*Usage:*

```
HDXConfig$set_read_only(read_only = TRUE)
```

*Arguments:*

read\_only a logical value indicating if you want to just read or be also able to write on the HDX server. You will need a API key to write.

**Method set\_hdx\_key():** Specify a HDX API key

*Usage:*

```
HDXConfig$set_hdx_key(hdx_key)
```

*Arguments:*

`hdx_key` a character with key

**Method** `get_hdx_key()`: Specify a HDX API key

*Usage:*

`HDXConfig$get_hdx_key()`

*Returns:* a character, the HDX API key

**Method** `set_hdx_site()`: Specify a HDX server to use

*Usage:*

`HDXConfig$set_hdx_site(hdx_site = "prod")`

*Arguments:*

`hdx_site` a character, the server type to use, prod, test, feature or demo

*Returns:* a character, the HDX API key

**Method** `get_hdx_site()`: Get the HDX server in use

*Usage:*

`HDXConfig$get_hdx_site()`

*Returns:* the server type

**Method** `get_hdx_site_url()`: Get the HDX server URL in use

*Usage:*

`HDXConfig$get_hdx_site_url()`

*Returns:* the server URL

**Method** `remoteclient()`: Get the remoteclient currently used

*Usage:*

`HDXConfig$remoteclient()`

*Returns:* a `cruk::HttpClient`

**Method** `call_action()`: Call the client to the HDX API

*Usage:*

`HDXConfig$call_action(action, ..., verb = "get")`

*Arguments:*

`action` a character

`...` parameters for each verb used

`verb` a character the verb used, post, get, put or patch

*Returns:* list a with status code and results

**Method** `read()`: read and show Configuration object

*Usage:*

`HDXConfig$read()`

*Returns:* Configuration object

**Method** `setup()`: Setup Configuration object

*Usage:*

```
HDXConfig$setup(  
    hdx_site = "prod",  
    hdx_key = NULL,  
    read_only = TRUE,  
    hdx_config = NULL,  
    configuration = NULL  
)
```

*Arguments:*

`hdx_site` a character value, the server  
`hdx_key` a character value, the API key  
`read_only` a logical value read only  
`hdx_config` a list  
`configuration` a character

**Method** `delete()`: Delete a Configuration object Access the global Configuration

*Usage:*

```
HDXConfig$delete()
```

**Method** `get_global_config()`:

*Usage:*

```
HDXConfig$get_global_config()
```

*Returns:* list with HDX configuration information

**Method** `general_statistics()`: Get general statistics about the server

*Usage:*

```
HDXConfig$general_statistics()
```

*Returns:* list with statistics about the server

**Method** `as_list()`: Convert configuration to list

*Usage:*

```
HDXConfig$as_list()
```

*Returns:* configuration in list format

**Method** `print()`: Print Configuration object

*Usage:*

```
HDXConfig$print()
```

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
HDXConfig$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

## Examples

```
## Not run:
set_rhdx_config(hdx_site = "prod")
get_rhd_config()

## End(Not run)
```

HDXDataset

*HDX Dataset*

## Description

HDX Dataset  
HDX Dataset

## Details

Dataset class containing all logic for accessing, creating, and updating datasets and associated resources.

## Super class

[rhdx::HDXObject](#) -> HDXDataset

## Public fields

resources list of Resource object within the dataset  
data placeholder for Dataset field element

## Methods

### Public methods:

- [HDXDataset\\$new\(\)](#)
- [HDXDataset\\$get\\_resource\(\)](#)
- [HDXDataset\\$get\\_resources\(\)](#)
- [HDXDataset\\$number\\_of\\_resources\(\)](#)
- [HDXDataset\\$delete\\_resource\(\)](#)
- [HDXDataset\\$delete\\_resources\(\)](#)
- [HDXDataset\\$browse\(\)](#)
- [HDXDataset\\$get\\_configuration\(\)](#)
- [HDXDataset\\$get\\_dataset\\_date\(\)](#)
- [HDXDataset\\$get\\_update\\_frequency\(\)](#)
- [HDXDataset\\$get\\_tags\(\)](#)
- [HDXDataset\\$get\\_locations\(\)](#)
- [HDXDataset\\$get\\_maintainer\(\)](#)

- `HDXDataset$get_organization()`
- `HDXDataset$get_showcases()`
- `HDXDataset$is_requestable()`
- `HDXDataset$get_required_fields()`
- `HDXDataset$check_required_fields()`
- `HDXDataset$as_list()`
- `HDXDataset$print()`
- `HDXDataset$clone()`

**Method new():** Create a new Dataset object

*Usage:*

```
HDXDataset$new(initial_data = NULL, configuration = NULL)
```

*Arguments:*

`initial_data` list with required field to create a dataset  
`configuration` a Configuration object

*Returns:* A Dataset object

**Method get\_resource():** Get a specific resource of the dataset

*Usage:*

```
HDXDataset$get_resource(index)
```

*Arguments:*

`index`, the index of the resource to access

*Returns:* a Resource object, the selected resource

**Method get\_resources():** Get all resources of the dataset

*Usage:*

```
HDXDataset$get_resources(pattern = NULL, format = NULL)
```

*Arguments:*

`pattern` regex pattern in resource name  
`format` format of the resources

*Returns:* a list of Resource objects, all resources available in the dataset

**Method number\_of\_resources():** Get number of dataset resources

*Usage:*

```
HDXDataset$number_of_resources()
```

*Returns:* The number of Resource objects

**Method delete\_resource():** Delete a resource by its index

*Usage:*

```
HDXDataset$delete_resource(index = 1L)
```

*Arguments:*

`index`, the index of the resource to delete

**Method** `delete_resources()`: Delete all resources from a dataset

*Usage:*

`HDXDataset$delete_resources()`

**Method** `browse()`: Browse the dataset page on HDX

*Usage:*

`HDXDataset$browse()`

**Method** `get_configuration()`: Get the current configuration in use

*Usage:*

`HDXDataset$get_configuration()`

*Returns:* A configuration object, the configuration in use

**Method** `get_dataset_date()`: Get the dataset date

*Usage:*

`HDXDataset$get_dataset_date()`

*Returns:* a date, the dataset date.

**Method** `get_update_frequency()`: Get dataset update frequency

*Usage:*

`HDXDataset$get_update_frequency()`

*Returns:* a character, the dataset update frequency Get dataset tags

**Method** `get_tags()`:

*Usage:*

`HDXDataset$get_tags()`

*Returns:* a list of Tag objects, datasets tags

**Method** `get_locations()`: Get the datasets location

*Usage:*

`HDXDataset$get_locations()`

*Returns:* a list of Location objects, all locations covered by the dataset

**Method** `get_maintainer()`: Get the dataset maintainer

*Usage:*

`HDXDataset$get_maintainer()`

*Returns:* An User object, the maintainer of the dataset

**Method** `get_organization()`: Get the dataset organization

*Usage:*

`HDXDataset$get_organization()`

*Returns:* an Organization object, the organization that shared the data

**Method** `get_showcases()`: Get the Showcase associated to the dataset

*Usage:*

```
HDXDataset$get_showcases()
```

*Returns:* a Showcase object containing the dataset

**Method** `is_requestable()`: Check if the dataset is requestable

*Usage:*

```
HDXDataset$is_requestable()
```

*Returns:* a logical value, TRUE if it's a requestable dataset

**Method** `get_required_fields()`: Get dataset required fields

*Usage:*

```
HDXDataset$get_required_fields()
```

*Returns:* list of required fields for a dataset

**Method** `check_required_fields()`: Check dataset required field

*Usage:*

```
HDXDataset$check_required_fields()
```

*Returns:* a logical value, TRUE if the the dataset is not missing a required field and throws an error otherwise

**Method** `as_list()`: Get dataset field into list

*Usage:*

```
HDXDataset$as_list()
```

*Returns:* a list with dataset field

**Method** `print()`: Print a Dataset object

*Usage:*

```
HDXDataset$print()
```

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
HDXDataset$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

HDXLocation

*HDX Location***Description**

HDX Location

HDX Location

**Details**

HDX location mostly countries

**Super class**[rhd़::HDXObject](#) -> HDXLocation**Public fields**

data placeholder location

**Methods****Public methods:**

- [HDXLocation\\$new\(\)](#)
- [HDXLocation\\$get\\_required\\_fields\(\)](#)
- [HDXLocation\\$check\\_required\\_fields\(\)](#)
- [HDXLocation\\$browse\(\)](#)
- [HDXLocation\\$as\\_list\(\)](#)
- [HDXLocation\\$print\(\)](#)
- [HDXLocation\\$clone\(\)](#)

**Method** new(): Create a new Location object*Usage:*

HDXLocation\$new(initial\_data = NULL, configuration = NULL)

*Arguments:*

initial\_data list with required field to create a dataset

configuration a Configuration object

*Returns:* A Location object**Method** get\_required\_fields(): Get dataset required fields*Usage:*

HDXLocation\$get\_required\_fields()

*Returns:* list of required fields for a dataset

**Method** `check_required_fields()`: Check dataset required field

*Usage:*

`HDXLocation$check_required_fields()`

*Returns:* a logical value, TRUE if the the dataset is not missing a required field and throws an error otherwise

**Method** `browse()`: Browser the Location page on HDX

*Usage:*

`HDXLocation$browse()`

**Method** `as_list()`: Get location field into list

*Usage:*

`HDXLocation$as_list()`

*Returns:* a list with dataset field

**Method** `print()`: Print a Dataset object

*Usage:*

`HDXLocation$print()`

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

`HDXLocation$clone(deep = FALSE)`

*Arguments:*

`deep` Whether to make a deep clone.

---

HDXObject

*HDXObject abstract class*

---

## Description

HDXObject abstract class

HDXObject abstract class

## Details

HDXObject class containing all logic for accessing, creating, and updating HDX objects.

## Public fields

`data` placeholder for HDXObject field element

## Methods

### Public methods:

- `HDXObject$new()`
- `HDXObject$update_from_yaml()`
- `HDXObject$update_from_json()`
- `HDXObject$get_required_fields()`
- `HDXObject$check_required_field()`
- `HDXObject$as_list()`
- `HDXObject$browse()`
- `HDXObject$get_configuration()`
- `HDXObject$print()`
- `HDXObject$clone()`

**Method** `new():` Create a new HDXObject object

*Usage:*

```
HDXObject$new(initial_data = NULL, configuration = NULL)
```

*Arguments:*

`initial_data` list with required field to create a HDXObject  
`configuration` a Configuration object

*Returns:* A HDXObject object

**Method** `update_from_yaml():` Update metadata from yaml file

*Usage:*

```
HDXObject$update_from_yaml(path)
```

*Arguments:*

`path` (character) Path to YAML metadata

**Method** `update_from_json():` Update metadata from json file

*Usage:*

```
HDXObject$update_from_json(path)
```

*Arguments:*

`path` (character) Path to JSON metadata

**Method** `get_required_fields():` Get HDXObject required fields

*Usage:*

```
HDXObject$get_required_fields()
```

*Returns:* list of required fields for a resource

**Method** `check_required_field():` Check HDXObject required field

*Usage:*

```
HDXObject$check_required_field()
```

*Returns:* a logical value, TRUE if the the resource is not missing a required field and throws an error otherwise

**Method** `as_list()`: Get HDXObject field into list

*Usage:*

`HDXObject$as_list()`

*Returns:* a list with HDXObject field

**Method** `browse()`: Browse HDX

*Usage:*

`HDXObject$browse()`

**Method** `get_configuration()`: Get the current configuration in use

*Usage:*

`HDXObject$get_configuration()`

*Returns:* A configuration object, the configuration in use

**Method** `print()`: Print a Dataset object

*Usage:*

`HDXObject$print()`

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

`HDXObject$clone(deep = FALSE)`

*Arguments:*

`deep` Whether to make a deep clone.

---

HDXOrganization

*HDX Organization*

---

## Description

HDX Organization

HDX Organization

## Details

HDX Organization

## Super class

`rhdx::HDXObject` -> HDXOrganization

## Public fields

`data` placeholder for the Organization fields element

## Methods

### Public methods:

- `HDXOrganization$new()`
- `HDXOrganization$get_datasets()`
- `HDXOrganization$browse()`
- `HDXOrganization$as_list()`
- `HDXOrganization$print()`
- `HDXOrganization$clone()`

**Method** `new():` Create a Organization object

*Usage:*

`HDXOrganization$new(initial_data = NULL, configuration = NULL)`

*Arguments:*

`initial_data` list with required field to create a dataset

`configuration` a Configuration object

*Returns:* A Organization object

**Method** `get_datasets():` Get the list of datasets within the organization

*Usage:*

`HDXOrganization$get_datasets()`

*Returns:* list of Dataset objects

**Method** `browse():` Browse the Organization page on HDX

*Usage:*

`HDXOrganization$browse()`

**Method** `as_list():` Get dataset field into list

*Usage:*

`HDXOrganization$as_list()`

*Returns:* a list with organization field element

**Method** `print():` Print a Dataset object

*Usage:*

`HDXOrganization$print()`

**Method** `clone():` The objects of this class are cloneable with this method.

*Usage:*

`HDXOrganization$clone(deep = FALSE)`

*Arguments:*

`deep` Whether to make a deep clone.

---

HDXResource

*HDX Resource*

---

## Description

HDX Resource

HDX Resource

## Details

HDX Resource, it contains all the logic for creating, checking, and updating resources

## Super class

[rhdx::HDXObject](#) -> HDXResource

## Public fields

data placeholder for Resource field element

## Methods

### Public methods:

- [HDXResource\\$new\(\)](#)
- [HDXResource\\$download\(\)](#)
- [HDXResource\\$download\\_folder\(\)](#)
- [HDXResource\\$read\\_resource\(\)](#)
- [HDXResource\\$get\\_layers\(\)](#)
- [HDXResource\\$get\\_sheets\(\)](#)
- [HDXResource\\$get\\_dataset\(\)](#)
- [HDXResource\\$get\\_required\\_fields\(\)](#)
- [HDXResource\\$check\\_required\\_field\(\)](#)
- [HDXResource\\$get\\_format\(\)](#)
- [HDXResource\\$as\\_list\(\)](#)
- [HDXResource\\$browse\(\)](#)
- [HDXResource\\$print\(\)](#)
- [HDXResource\\$clone\(\)](#)

**Method** `new(): Create a new Resource object`

*Usage:*

`HDXResource$new(initial_data = NULL, configuration = NULL)`

*Arguments:*

`initial_data` list with required field to create a resource

`configuration` a Configuration object

*Returns:* A new Resource object

**Method** download(): Download a HDX resource

*Usage:*

```
HDXResource$download(
  folder = NULL,
  filename = NULL,
  quiet = TRUE,
  force = FALSE,
  ...
)
```

*Arguments:*

folder a character, folder to save the dataset  
 filename a character, filename of the dataset  
 quiet a logical value, silent download if TRUE  
 force a logical value, force download  
 ... other download.file parameters

*Returns:* a character, the file path

**Method** download\_folder(): Get the download folder for the latest downloaded resource

*Usage:*

```
HDXResource$download_folder()
```

*Returns:* a character, folder with the latest downloaded resource

**Method** read\_resource(): Read a Resource object directly into memory

*Usage:*

```
HDXResource$read_resource(
  sheet = NULL,
  layer = NULL,
  format = NULL,
  download_folder = NULL,
  simplify_json = TRUE,
  force_download = FALSE,
  quiet_download = TRUE,
  ...
)
```

*Arguments:*

sheet a character value, only for resource in Excel format  
 layer a character value, only for spatial (vector) resource  
 format a character value, file format;  
 download\_folder a character value, folder to save the downloaded resource  
 simplify\_json a logical value  
 force\_download a logical value, if TRUE force download  
 quiet\_download a logical value, if TRUE silent download

... other parameters

*Returns:* a tibble, a sf, a stars or a list depending on the type of resource read

**Method** `get_layers()`: Get spatial (vector) resource list of layers

*Usage:*

```
HDXResource$get_layers(  
  format = NULL,  
  download_folder = NULL,  
  quiet_download = TRUE,  
  force_download = FALSE  
)
```

*Arguments:*

`format` character; file format

`download_folder` a character value, folder to save the downloaded resource

`quiet_download` a logical value, if TRUE silent download

`force_download` a logical value, if TRUE force download

*Returns:* a the list of layers available in the resource

**Method** `get_sheets()`: Get the list of sheets name of resource

*Usage:*

```
HDXResource$get_sheets(  
  format = NULL,  
  download_folder = NULL,  
  quiet_download = TRUE,  
  force_download = FALSE  
)
```

*Arguments:*

`format` character; file format

`download_folder` a character value, folder to save the downloaded resource

`quiet_download` a logical value, if TRUE silent download

`force_download` a logical value, if TRUE force download

*Returns:* a the list of layers available in the resource

**Method** `get_dataset()`: Get the resource dataset.

*Usage:*

```
HDXResource$get_dataset()
```

*Returns:* a Dataset, the dataset containing the resource

**Method** `get_required_fields()`: Get dataset required fields

*Usage:*

```
HDXResource$get_required_fields()
```

*Returns:* list of required fields for a resource

**Method** `check_required_field()`: Check dataset required field

*Usage:*

```
HDXResource$check_required_field(check_dataset_id = FALSE)
```

*Arguments:*

check\_dataset\_id logical whether to check or not dataset id

*Returns:* a logical value, TRUE if the the resource is not missing a required field and throws an error otherwise

**Method** get\_format(): Get the file format

*Usage:*

```
HDXResource$get_format()
```

*Returns:* a character, the file format of the resource

**Method** as\_list(): Get resource field into list

*Usage:*

```
HDXResource$as_list()
```

*Returns:* a list with resource field

**Method** browse(): Browse the resource page on HDX

*Usage:*

```
HDXResource$browse()
```

**Method** print(): Print a Resource object

*Usage:*

```
HDXResource$print()
```

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

```
HDXResource$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

---

## Description

HDX Showcase

HDX Showcase

## Details

HDX Showcase

**Super class**

`rhdx::HDXObject` -> HDXShowcase

**Public fields**

`datasets` list of datasets using this showcase  
`data` the field info into list

**Methods****Public methods:**

- `HDXShowcase$new()`
- `HDXShowcase$get_datasets()`
- `HDXShowcase$browse()`
- `HDXShowcase$as_list()`
- `HDXShowcase$print()`
- `HDXShowcase$clone()`

**Method new():** Create a new Showcase object

*Usage:*

`HDXShowcase$new(initial_data = NULL, configuration = NULL)`

*Arguments:*

`initial_data` list, data with required field to create Showcase  
`configuration` Configuration, configuration to use

*Returns:* a new Showcase object

**Method get\_datasets():** List datasets using the Showcase

*Usage:*

`HDXShowcase$get_datasets()`

*Returns:* a list of dataset

**Method browse():** Browse the Showcase page on HDX

*Usage:*

`HDXShowcase$browse()`

**Method as\_list():** Get dataset field into list

*Usage:*

`HDXShowcase$as_list()`

*Returns:* a list with showcase field info

**Method print():** Print a Showcase object

*Usage:*

`HDXShowcase$print()`

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

`HDXShowcase$clone(deep = FALSE)`

*Arguments:*

`deep` Whether to make a deep clone.

HDXUser

*HDX User*

## Description

HDX User

HDX User

## Details

HDX user

## Super class

[rhdः::HDXObject](#) -> HDXUser

## Public fields

`data` placeholder for Dataset field element

## Methods

### Public methods:

- [HDXUser\\$new\(\)](#)
- [HDXUser\\$as\\_list\(\)](#)
- [HDXUser\\$browse\(\)](#)
- [HDXUser\\$print\(\)](#)
- [HDXUser\\$clone\(\)](#)

**Method** `new()`: Create a new

*Usage:*

`HDXUser$new(initial_data = NULL, configuration = NULL)`

*Arguments:*

`initial_data` list of field required to create a dataset

`configuration` Configuration configuration to use

*Returns:* a new User object

**Method** `as_list()`: Get dataset field into list

*Usage:*

```
HDXUser$as_list()
```

*Returns:* a list with dataset field

**Method** `browse()`: Browse the user page on HDX

*Usage:*

```
HDXUser$browse()
```

**Method** `print()`: Print a User object

*Usage:*

```
HDXUser$print()
```

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
HDXUser$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

---

## hdx\_general\_statistics

*Get general stats about HDX*

---

### Description

Get some stats about HDX

### Usage

```
hdx_general_statistics()
```

### Value

A list

---

<code>list_locations</code>	<i>List locations</i>
-----------------------------	-----------------------

---

## Description

List locations

## Usage

```
list_locations(  
  sort = "name asc",  
  all_fields = FALSE,  
  configuration = NULL,  
  ...  
)
```

## Arguments

<code>sort</code>	Character sorting of the search results. Default: “name asc”, the allowed fields are ‘name’, ‘package_count’ and ‘title’
<code>all_fields</code>	Logical if TRUE returns list instead of just names
<code>configuration</code>	a Configuration
...	Extra parameters to group_list <a href="https://docs.ckan.org/en/ckan-2.8.2/api/index.html#ckan.logic.action.get.group_list">https://docs.ckan.org/en/ckan-2.8.2/api/index.html#ckan.logic.action.get.group_list</a>

## Value

A vector of locations names

## Examples

```
## Not run:  
# Setting the config to use HDX default server  
set_rhdx_config()  
list_locations(limit = 10L)  
  
## End(Not run)
```

---

`list_tags`*List all tags*

---

**Description**

List all available tags

**Usage**

```
list_tags(  
  query = NULL,  
  vocabulary_id = NULL,  
  all_fields = FALSE,  
  configuration = NULL  
)
```

**Arguments**

query	a tag name query to search for, if given only tags whose names contain this string will be returned
vocabulary_id	the id or name of a vocabulary, if give only tags that belong to this vocabulary will be returned
all_fields	logical return full Tag object instead of just names
configuration	Configuration the configuration to use

**Examples**

```
## Not run:  
# Setting the config to use HDX default server  
set_rhdx_config()  
list_tag()  
  
## End(Not run)
```

---

`list_users`*List all users*

---

**Description**

List all users

**Usage**

```
list_users(order_by = "number_created_packages", configuration = NULL, ...)
```

**Arguments**

order_by	Logical user sorted is TRUE
configuration	Configuration the configuration to use
...	Extra parameters

**Examples**

```
## Not run:
# Setting the config to use HDX default server
set_rhdx_config()
list_user()

## End(Not run)
```

**list\_vocabularies**      *List available HDX Vocabulary objects*

**Description**

List available HDX Vocabulary objects

**Usage**

```
list_vocabularies(identifier = NULL, configuration = NULL)
```

**Arguments**

identifier	character identifier
configuration	Configuration

**Value**

A list of Vocabulary object

**Examples**

```
## Not run:
# Setting the config to use HDX default server
set_rhdx_config()
res <- list_vocabularies()
res

## End(Not run)
```

---

pull_dataset	<i>Pull HDX dataset into R</i>
--------------	--------------------------------

---

### Description

Read an HDX dataset from its name or id

### Usage

```
pull_dataset(identifier, configuration = NULL)
```

### Arguments

identifier	Character dataset keyword
configuration	a Configuration object

### Value

Dataset the dataset

### Examples

```
## Not run:  
# Setting the config to use HDX default server  
set_rhdx_config()  
res <- pull_dataset("mali-3wop")  
res  
  
## End(Not run)
```

---

---

pull_location	<i>Read an HDX location</i>
---------------	-----------------------------

---

### Description

Read an HDX location

### Usage

```
pull_location(  
  identifier = NULL,  
  include_datasets = FALSE,  
  configuration = NULL,  
  ...  
)
```

**Arguments**

identifier	Character location uuid
include_datasets	Logical whether to include or not dataset
configuration	Configuration a configuration object
...	Extra parameters

**Value**

Location

**Examples**

```
## Not run:
#Setting the config to use HDX default server
set_rhdx_config()
res <- pull_location("mli")
res

## End(Not run)
```

**pull\_organization**      *Read an HDX organization*

**Description**

Read an HDX organization

**Usage**

```
pull_organization(
  identifier = NULL,
  include_datasets = FALSE,
  configuration = NULL,
  ...
)
```

**Arguments**

identifier	character resource uuid
include_datasets	Logical, include datasets if TRUE
configuration	an HDX configuration object
...	Extra parameters

**Value**

HDX organization

---

pull_resource	<i>Read an HDX resource</i>
---------------	-----------------------------

---

### Description

Read an HDX resource

### Usage

```
pull_resource(identifier, configuration = NULL)
```

### Arguments

identifier	Character resource uuid
configuration	a Configuration object

### Value

Resource

### Examples

```
## Not run:  
#Setting the config to use HDX default server  
set_rhdx_config()  
res <- pull_resource("98aa1742-b5d3-40c3-94c6-01e31ded6e84")  
res  
  
## End(Not run)
```

---

---

pull_showcase	<i>Read Showcase</i>
---------------	----------------------

---

### Description

Read HDX Showcase

### Usage

```
pull_showcase(identifier = NULL, configuration = NULL)
```

### Arguments

identifier	Character Showcase name or id
configuration	Configuration an HDX configuration object

## Details

Delete resource from dataset

## Value

A showcase

## Examples

```
## Not run:
# Setting the config to use HDX default server
pull_showcase("fts-requirements-and-funding-data-for-zimbabwe-showcase") # first resource

## End(Not run)
```

**pull\_tag**

*Read an HDX tag*

## Description

Read an HDX tag from its name or id

## Usage

```
pull_tag(
  identifier = NULL,
  vocabulary_id = NULL,
  include_datasets = FALSE,
  configuration = NULL
)
```

## Arguments

<code>identifier</code>	character the name or id of the tag
<code>vocabulary_id</code>	character the id or name of the tag vocabulary that the tag is in - if it is not specified it will assume it is a free tag.
<code>include_datasets</code>	logical, include a list of the tag's datasets.
<code>configuration</code>	a Configuration object

## Value

Tag the tag

## Examples

```
## Not run:  
# Setting the config to use HDX default server  
set_rhdx_config()  
res <- pull_tag("covid19")  
res  
  
## End(Not run)
```

---

pull\_user

*Read an HDX user*

---

## Description

Read an HDX user from its name or id

## Usage

```
pull_user(  
  identifier = NULL,  
  include_datasets = FALSE,  
  configuration = NULL,  
  ...  
)
```

## Arguments

identifier	character user keyword
include_datasets	Logical, if TRUE add datasets
configuration	a Configuration object
...	Extra parameters

## Value

User the user

## Examples

```
## Not run:  
# Setting the config to use HDX default server  
set_rhdx_config()  
res <- pull_user("xxxx")  
res  
  
## End(Not run)
```

`pull_vocabulary`      *Read an HDX Vocabulary*

### Description

Read an HDX vocabulary from its name or id

### Usage

```
pull_vocabulary(identifier = NULL, configuration = NULL)
```

### Arguments

<code>identifier</code>	character the name or id of the vocabulary
<code>configuration</code>	Configuration

### Value

The Vocabulary object

### Examples

```
## Not run:
# Setting the config to use HDX default server
set_rhdx_config()
res <- pull_vocabulary("xxxx")
res

## End(Not run)
```

`read_resource`      *Read resource*

### Description

Read resource

### Usage

```
read_resource(
  resource,
  sheet = NULL,
  layer = NULL,
  format = NULL,
  download_folder = NULL,
  simplify_json = TRUE,
```

```
    force_download = FALSE,  
    quiet_download = TRUE,  
    ...  
)
```

## Arguments

resource	Resource, an HDX resource
sheet	Character, the name of the sheet to read if XLS(X) resources. The first sheet is read by default.
layer	Character, the name of the layer to read if spatial data. The first sheet is read by default.
format	Character, file format, csv, zipped csv, excel, xlsx, zipped shapefile, etc.
download_folder	Character, the path of the folder to store the downloaded data
simplify_json	Logical, if TRUE simplifies nested lists into vectors and data frames for JSON resources
force_download	Logical, force download if TRUE
quiet_download	logical, silent download
...	extra parameters

## Value

an tibble, a list, a stars or a sf object depending on the type of resource you are reading from HDX

---

rhd़

rhd़

---

## Description

R client for the Humanitarian Data Exchange platform

## Author(s)

<mail@ahmadoudicko.com>

`rhdx_cache`*Caching HDX downloaded files***Description**

Manage cached HDX downloaded files

**Usage**

```
rhdx_cache_set_dir(path)
rhdx_cache_get_dir()
rhdx_cache_list()
rhdx_cache_delete(file)
rhdx_cache_clear()
```

**Arguments**

<code>path</code>	Character directory to set
<code>file</code>	Character, the file to delete

**Details**

The default cache directory is `~/.cache/R/rhdx_cache`, but you can set your own path using `rhdx_cache_set_dir()`

**Value**

- the cache directory
- the cache directory
- list of files in the cache

**Examples**

```
## Not run:
rhdx_cache
## change the default cache directory
tmp <- tempdir()
rhdx_cache_set_dir(tmp)

## print current cache directory
rhdx_cache_get_dir()

## List available files in the current cache directory
```

```
rhdx_cache_list()  
  
l <- rhdx_cache_list()[1] ## get the first file  
rhdx_cache_delete(l) ## delete it  
  
rhdx_cache_clear() ## delete all cached files  
  
## End(Not run)
```

---

search\_datasets      *Search for datasets on HDX*

---

## Description

Search for datasets on HDX

## Usage

```
search_datasets(  
  query = "*:*",  
  filter_query = NULL,  
  rows = 10L,  
  start = 0L,  
  page_size = 1000L,  
  configuration = NULL,  
  ...  
)
```

## Arguments

query	Character Query terms, use solr format and default to ":" (match everything)
filter_query	Character Filter Query results
rows	integer; Number of matching records to return. Defaults to 10.
start	integer; the offset in the complete result for where the set of returned datasets should begin.
page_size	integer; Size of page to return. Defaults to 1000.
configuration	Configuration object.
...	Extra parameters for package_search endpoints

## Details

Search and find datasets on HDX

## Value

A list of HDX datasets

## Examples

```
## Not run:
# Setting the config to use HDX default server
search_datasets("displaced nigeria", rows = 3L)

## End(Not run)
```

search\_resources      *Search resources*

## Description

Search Resources

## Usage

```
search_resources(query = "*:*", configuration = NULL, ...)
```

## Arguments

query	Character, a query
configuration	a Configuration object
...	extra params

search\_tags      *Search for datasets on HDX*

## Description

Search for datasets on HDX

## Usage

```
search_tags(
  query = "",
  vocabulary_id = NULL,
  limit = NULL,
  offset = NULL,
  configuration = NULL
)
```

## Arguments

```
query          (character) - character to search for
vocabulary_id (character) - the id or name of the tag vocabulary to search in
limit          (integer) - the maximum number of tags to return
offset          (integer) - when limit is given, the offset to start returnings tags from
configuration Configuration object.
```

## Details

Search and find tags on HDX

## Value

A list of HDX tags

## Examples

```
## Not run:
# Setting the config to use HDX default server
search_tags("idps", rows = 3L)

## End(Not run)
```

---

set\_rhdx\_config      *Set rhdx config*

---

## Description

Sets the configuration settings for using rhdx.

## Usage

```
set_rhdx_config(
  hdx_site = "prod",
  hdx_key = NULL,
  read_only = TRUE,
  hdx_config = NULL,
  hdx_config_file = NULL,
  configuration = NULL
)
get_rhdx_config()
```

**Arguments**

<code>hdx_site</code>	Character to specify which HDX server you want to use. Default to "prod".
<code>hdx_key</code>	Character for the CKAN API key, it is required to push data into HDX
<code>read_only</code>	Logical if FALSE and <code>hdx_key</code> provided is correct you can push metadata and data to HDX
<code>hdx_config</code>	List of HDX configuration
<code>hdx_config_file</code>	Character, path of the HDX config file in JSON and YAML format
<code>configuration</code>	Configuration object.

**Details**

Setting up a configuration will help you access from an HDX server

**Value**

Invisibly returns the rhdx config object

**Examples**

```
## Not run:
# Setting the config to use HDX default server
set_rhdx_config(hdx_site = "demo")

# You can check your configuration using \code{get_rhdx_config}
config <- get_rhdx_config()
config

## End(Not run)
```

Tag

HDX Tag

**Description**

HDX Tag

HDX Tag

**Details**

HDX tag

**Super class**

[rhdx::HDXObject](#) -> Tag

**Public fields**

data list of tag field element

**Methods****Public methods:**

- [Tag\\$new\(\)](#)
- [Tag\\$as\\_list\(\)](#)
- [Tag\\$print\(\)](#)
- [Tag\\$clone\(\)](#)

**Method new():** Create a new Tag object

*Usage:*

Tag\$new(initial\_data = NULL, configuration = NULL)

*Arguments:*

initial\_data list data with required fields to create a tag object

configuration Configuration configuration to use

*Returns:* a Tag object

**Method as\_list():** Tag object to list

*Usage:*

Tag\$as\_list()

*Returns:* a list with of tag fields element

**Method print():** Print a Tag object

*Usage:*

Tag\$print()

**Method clone():** The objects of this class are cloneable with this method.

*Usage:*

Tag\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

**Vocabulary***HDX Vocabulary***Description**

HDX Vocabulary

HDX Vocabulary

**Details**

HDX Vocabulary

**Super class**

[rhdx::HDXObject](#) -> Vocabulary

**Public fields**

data list of tag field element

**Methods****Public methods:**

- [Vocabulary\\$new\(\)](#)
- [Vocabulary\\$as\\_list\(\)](#)
- [Vocabulary\\$authorized\\_tags\\_name\(\)](#)
- [Vocabulary\\$print\(\)](#)
- [Vocabulary\\$clone\(\)](#)

**Method new():** Create a new Tag object

*Usage:*

Vocabulary\$new(initial\_data = NULL, configuration = NULL)

*Arguments:*

initial\_data list data with required fields to create a tag object

configuration Configuration configuration to use

*Returns:* a Tag object

**Method as\_list():** Tag object to list

*Usage:*

Vocabulary\$as\_list()

*Returns:* a list with of tag fields element

**Method authorized\_tags\_name():** List of accepted tags on HDX

*Usage:*

Vocabulary\$authorized\_tags\_name()

*Returns:* a vector of tags name

**Method** print(): Print a Vocabulary object

*Usage:*

Vocabulary/print()

**Method** clone(): The objects of this class are cloneable with this method.

*Usage:*

Vocabulary\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

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