

Package: rdataretriever (via r-universe)

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Title R Interface to the Data Retriever

Description Provides an R interface to the Data Retriever
<<https://retriever.readthedocs.io/en/latest/>> via the Data
Retriever's command line interface. The Data Retriever
automates the tasks of finding, downloading, and cleaning
public datasets, and then stores them in a local database.

Version 3.1.1

BugReports <https://github.com/ropensci/rdataretriever/issues>

URL <https://docs.ropensci.org/rdataretriever/> (website),
<https://github.com/ropensci/rdataretriever/>

Depends R (>= 3.4.0)

Imports reticulate (>= 1.16), semver

Suggests testthat (>= 1.0.0), DBI, devtools, RSQLite, RPostgreSQL,
knitr, rmarkdown, dbplyr, raster, ggplot2

VignetteBuilder knitr

SystemRequirements Python (>= 3.7), retriever (>= 3.0.0) (version must
be listed to patch to allow parsing)

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check_for_updates	<i>Check for updates</i>
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Description

Check for updates

Usage

check_for_updates(repo = "")

Arguments

repo path to the repository

Value

No return value, checks for updates repo

Examples

```
## Not run:  
rdataretriever::check_for_updates()  
  
## End(Not run)
```

`check_retriever_availability`

Check to see if minimum version of retriever Python package is installed

Description

Check to see if minimum version of retriever Python package is installed

Usage

```
check_retriever_availability()
```

Value

boolean

Examples

```
## Not run:  
rdataretriever::check_retriever_availability()  
  
## End(Not run)
```

commit	<i>Commit a dataset</i>
--------	-------------------------

Description

Commit a dataset

Usage

```
commit(dataset, commit_message = "", path = NULL, quiet = FALSE)
```

Arguments

dataset	name of the dataset
commit_message	commit message for the commit
path	path to save the committed dataset, if no path given save in provenance directory
quiet	logical, if true retriever runs in quiet mode

Value

No return value, provides confirmation for commit

Examples

```
## Not run:
rdataretriever::commit("iris")

## End(Not run)
```

commit_log	<i>See the log of committed dataset stored in provenance directory</i>
------------	--

Description

See the log of committed dataset stored in provenance directory

Usage

```
commit_log(dataset)
```

Arguments

dataset	name of the dataset stored in provenance directory
---------	--

Value

No return value, prints message after commit

Examples

```
## Not run:  
rdataretriever::commit_log("iris")  
  
## End(Not run)
```

data_retriever_version	
	<i>Get Data Retriever version</i>

Description

Get Data Retriever version

Usage

```
data_retriever_version(clean = TRUE)
```

Arguments

clean	boolean return cleaned version appropriate for semver
-------	---

Value

returns a string with the version information

Examples

```
## Not run:  
rdataretriever::data_retriever_version()  
  
## End(Not run)
```

dataset_names	<i>Name all available dataset scripts.</i>
---------------	--

Description

Additional information on the available datasets can be found at url <https://retriever.readthedocs.io/en/latest/datasets.html>

Usage

```
dataset_names()
```

Value

returns a character vector with the available datasets for download

Examples

```
## Not run:  
rdataretriever::dataset_names()  
  
## End(Not run)
```

datasets	<i>Name all available dataset scripts.</i>
----------	--

Description

Additional information on the available datasets can be found at url <https://retriever.readthedocs.io/en/latest/datasets.html>

Usage

```
datasets(keywords = "", licenses = "")
```

Arguments

keywords	search all datasets by keywords
licenses	search all datasets by licenses

Value

returns a character vector with the available datasets for download
Returns the names of all available dataset scripts

Examples

```
## Not run:
rdataretriever::datasets()

## End(Not run)
```

display_all_rdataset_names

Displays the list of rdataset names present in the list of packages provided

Description

Can take a list of packages, or NULL or a string 'all' for all rdataset packages and datasets

Usage

```
display_all_rdataset_names(package_name = NULL)
```

Arguments

package_name print datasets in the package, default to print rdataset and all to print all

Value

No return value, displays the list of rdataset names present

Examples

```
## Not run:
rdataretriever::display_all_rdataset_names()

## End(Not run)
```

download

Download datasets via the Data Retriever.

Description

Directly downloads data files with no processing, allowing downloading of non-tabular data.

Usage

```
download(
  dataset,
  path = "./",
  quiet = FALSE,
  sub_dir = "",
  debug = FALSE,
  use_cache = TRUE
)
```

Arguments

dataset	the name of the dataset that you wish to download
path	the path where the data should be downloaded to
quiet	logical, if true retriever runs in quiet mode
sub_dir	downloaded dataset is stored into a custom subdirectory.
debug	setting TRUE helps in debugging in case of errors
use_cache	Setting FALSE reinstalls scripts even if they are already installed

Value

No return value, downloads the raw dataset

Examples

```
## Not run:
rdataretriever::download("plant-comp-ok")
# downloaded files will be copied to your working directory
# when no path is specified
dir()

## End(Not run)
```

 fetch

Fetch a dataset via the Data Retriever

Description

Each datafile in a given dataset is downloaded to a temporary directory and then imported as a data.frame as a member of a named list.

Usage

```
fetch(dataset, quiet = TRUE, data_names = NULL)
```

Arguments

dataset	the names of the dataset that you wish to download
quiet	logical, if true retriever runs in quiet mode
data_names	the names you wish to assign to cells of the list which stores the fetched dataframes. This is only relevant if you are downloading more than one dataset.

Value

Returns a dataframe of dataset

Examples

```
## Not run:
## fetch the portal Database
portal <- rdataretriever::fetch("portal")
class(portal)
names(portal)
## preview the data in the portal species datafile
head(portal$species)
vegdata <- rdataretriever::fetch(c("plant-comp-ok", "plant-occur-oosting"))
names(vegdata)
names(vegdata$plant_comp_ok)

## End(Not run)
```

```
find_socrata_dataset_by_id
```

Returns metadata for the following dataset id

Description

Returns metadata for the following dataset id

Usage

```
find_socrata_dataset_by_id(dataset_id)
```

Arguments

dataset_id	id of the dataset
------------	-------------------

Value

No return value, shows metadata for the following dataset id

Examples

```
## Not run:  
rdataretriever::socrata_dataset_info()  
  
## End(Not run)
```

```
get_dataset_names_upstream  
  Get dataset names from upstream
```

Description

Get dataset names from upstream

Usage

```
get_dataset_names_upstream(keywords = "", licenses = "", repo = "")
```

Arguments

keywords	filter datasets based on keywords
licenses	filter datasets based on license
repo	path to the repository

Value

No return value, gets dataset names from upstream

Examples

```
## Not run:  
rdataretriever::get_dataset_names_upstream(keywords = "", licenses = "", repo = "")  
  
## End(Not run)
```

get_rdataset_names	<i>Returns a list of all the available RDataset names present</i>
--------------------	---

Description

Returns a list of all the available RDataset names present

Usage

```
get_rdataset_names()
```

Value

No return value, list of all the available RDataset

Examples

```
## Not run:  
rdataretriever::get_rdataset_names()  
  
## End(Not run)
```

get_retriever_citation	<i>Get retriever citation</i>
------------------------	-------------------------------

Description

Get retriever citation

Usage

```
get_retriever_citation()
```

Value

No return value, outputs citation of the Data Retriever Python package

Examples

```
## Not run:  
rdataretriever::get_retriever_citation()  
  
## End(Not run)
```

get_script_citation	<i>Get citation of a script</i>
---------------------	---------------------------------

Description

Get citation of a script

Usage

```
get_script_citation(dataset = NULL)
```

Arguments

dataset	dataset to obtain citation
---------	----------------------------

Value

No return value, gets citation of a script

Examples

```
## Not run:  
rdataretriever::get_script_citation(dataset = "")  
  
## End(Not run)
```

get_script_upstream	<i>Get scripts upstream</i>
---------------------	-----------------------------

Description

Get scripts upstream

Usage

```
get_script_upstream(dataset, repo = "")
```

Arguments

dataset	name of the dataset
repo	path to the repository

Value

No return value, gets upstream scripts

Examples

```
## Not run:
rdataretriever::get_script_upstream("iris")

## End(Not run)
```

get_updates

Update the retriever's dataset scripts to the most recent versions.

Description

This function will check if the version of the retriever's scripts in your local directory '~/.retriever/scripts/' is up-to-date with the most recent official retriever release. Note it is possible that even more updated scripts exist at the retriever repository <https://github.com/weecology/retriever/tree/main/scripts> that have not yet been incorporated into an official release, and you should consider checking that page if you have any concerns.

Usage

```
get_updates()
```

Value

No return value, updatea the retriever's dataset scripts to the most recent versions

Examples

```
## Not run:
rdataretriever::get_updates()

## End(Not run)
```

install

Install datasets via the Data Retriever (deprecated).

Description

Data is stored in either CSV files or one of the following database management systems: MySQL, PostgreSQL, SQLite, or Microsoft Access.

Usage

```
install(
  dataset,
  connection,
  db_file = NULL,
  conn_file = NULL,
  data_dir = ".",
  log_dir = NULL
)
```

Arguments

dataset	the name of the dataset that you wish to download								
connection	what type of database connection should be used. The options include: mysql, postgres, sqlite, msaccess, or csv'								
db_file	the name of the database file the dataset should be loaded into								
conn_file	the path to the .conn file that contains the connection configuration options for mysql and postgres databases. This defaults to mysql.conn or postgres.conn respectively. The connection file is a file that is formatted in the following way: <table data-bbox="596 1005 1023 1134"> <tr> <td>host</td><td>my_server@my_host.com</td></tr> <tr> <td>port</td><td>my_port_number</td></tr> <tr> <td>user</td><td>my_user_name</td></tr> <tr> <td>password</td><td>my_password</td></tr> </table>	host	my_server@my_host.com	port	my_port_number	user	my_user_name	password	my_password
host	my_server@my_host.com								
port	my_port_number								
user	my_user_name								
password	my_password								
data_dir	the location where the dataset should be installed. Only relevant for csv connection types. Defaults to current working directory								
log_dir	the location where the retriever log should be stored if the progress is not printed to the console								

Value

No return value, main install function

Examples

```
## Not run:
rdataretriever::install("iris", "csv")

## End(Not run)
```

install_csv*Install datasets via the Data Retriever.*

Description

Data is stored in CSV files

Usage

```
install_csv(  
  dataset,  
  table_name = "{db}_{table}.csv",  
  data_dir = getwd(),  
  debug = FALSE,  
  use_cache = TRUE,  
  force = FALSE,  
  hash_value = NULL  
)
```

Arguments

dataset	the name of the dataset that you wish to install or path to a committed dataset zip file
table_name	the name of the database file to store data
data_dir	the dir path to store data, defaults to working dir
debug	setting TRUE helps in debugging in case of errors
use_cache	Setting FALSE reinstalls scripts even if they are already installed
force	setting TRUE doesn't prompt for confirmation while installing committed datasets when changes are discovered in environment
hash_value	the hash value of committed dataset when installing from provenance directory

Value

No return value, installs datasets into CSV

Examples

```
## Not run:  
rdataretriever::install_csv("iris")  
  
## End(Not run)
```

install_json

Install datasets via the Data Retriever.

Description

Data is stored in JSON files

Usage

```
install_json(  
  dataset,  
  table_name = "{db}_{table}.json",  
  data_dir = getwd(),  
  debug = FALSE,  
  use_cache = TRUE,  
  force = FALSE,  
  hash_value = NULL  
)
```

Arguments

dataset	the name of the dataset that you wish to install or path to a committed dataset zip file
table_name	the name of the database file to store data
data_dir	the dir path to store data, defaults to working dir
debug	setting TRUE helps in debugging in case of errors
use_cache	setting FALSE reinstalls scripts even if they are already installed
force	setting TRUE doesn't prompt for confirmation while installing committed datasets when changes are discovered in environment
hash_value	the hash value of committed dataset when installing from provenance directory

Value

No return value, installs datasets in to JSON

Examples

```
## Not run:  
rdataretriever::install_json("iris")  
  
## End(Not run)
```

install_msaccess*Install datasets via the Data Retriever.*

Description

Data is stored in MSAccess database

Usage

```
install_msaccess(  
  dataset,  
  file = "access.mdb",  
  table_name = "[{db} {table}]",  
  debug = FALSE,  
  use_cache = TRUE,  
  force = FALSE,  
  hash_value = NULL  
)
```

Arguments

dataset	the name of the dataset that you wish to install or path to a committed dataset zip file
file	file name for database
table_name	table name for installing of dataset
debug	setting TRUE helps in debugging in case of errors
use_cache	Setting FALSE reinstalls scripts even if they are already installed
force	setting TRUE doesn't prompt for confirmation while installing committed datasets when changes are discovered in environment
hash_value	the hash value of committed dataset when installing from provenance directory

Value

No return value, installs datasets into MSAccess database

Examples

```
## Not run:  
rdatretriever::install_msaccess(dataset = "iris", file = "sqlite.db")  
  
## End(Not run)
```

install_mysql

*Install datasets via the Data Retriever.***Description**

Data is stored in MySQL database

Usage

```
install_mysql(
  dataset,
  user = "root",
  password = "",
  host = "localhost",
  port = 3306,
  database_name = "{db}",
  table_name = "{db}.{table}",
  debug = FALSE,
  use_cache = TRUE,
  force = FALSE,
  hash_value = NULL
)
```

Arguments

dataset	the name of the dataset that you wish to install or path to a committed dataset zip file
user	username for database connection
password	password for database connection
host	hostname for connection
port	port number for connection
database_name	database name in which dataset will be installed
table_name	table name specified especially for datasets containing one file
debug	setting TRUE helps in debugging in case of errors
use_cache	setting FALSE reinstalls scripts even if they are already installed
force	setting TRUE doesn't prompt for confirmation while installing committed datasets when changes are discovered in environment
hash_value	the hash value of committed dataset when installing from provenance directory

Value

No return value, installs datasets into MySQL database

Examples

```
## Not run:
rdataretriever::install_mysql(dataset = "portal", user = "postgres", password = "abcdef")

## End(Not run)
```

install_postgres

*Install datasets via the Data Retriever.***Description**

Data is stored in PostgreSQL database

Usage

```
install_postgres(
  dataset,
  user = "postgres",
  password = "",
  host = "localhost",
  port = 5432,
  database = "postgres",
  database_name = "{db}",
  table_name = "{db}.{table}",
  bbox = list(),
  debug = FALSE,
  use_cache = TRUE,
  force = FALSE,
  hash_value = NULL
)
```

Arguments

dataset	the name of the dataset that you wish to install or path to a committed dataset zip file
user	username for database connection
password	password for database connection
host	hostname for connection
port	port number for connection
database	the database name default is postgres
database_name	database schema name in which dataset will be installed
table_name	table name specified especially for datasets containing one file
bbox	optional extent values used to fetch data from the spatial dataset
debug	setting TRUE helps in debugging in case of errors

use_cache	setting FALSE reinstalls scripts even if they are already installed
force	setting TRUE doesn't prompt for confirmation while installing committed datasets when changes are discovered in environment
hash_value	the hash value of committed dataset when installing from provenance directory

Value

No return value, installs datasets into PostgreSQL database

Examples

```
## Not run:
rdataretriever::install_postgres(dataset = "portal", user = "postgres", password = "abcdef")

## End(Not run)
```

install_retriever	<i>install the python module 'retriever'</i>
-------------------	--

Description

install the python module 'retriever'

Usage

```
install_retriever(method = "auto", conda = "auto")
```

Arguments

method	Installation method. By default, "auto" automatically finds a method that will work in the local environment. Change the default to force a specific installation method. Note that the "virtualenv" method is not available on Windows.
conda	The path to a conda executable. Use "auto" to allow reticulate to automatically find an appropriate conda binary. See Finding Conda and conda_binary() for more details.

Value

No return value, install the python module 'retriever'

install_sqlite	<i>Install datasets via the Data Retriever.</i>
----------------	---

Description

Data is stored in SQLite database

Usage

```
install_sqlite(
  dataset,
  file = "sqlite.db",
  table_name = "{db}_{table}",
  data_dir = getwd(),
  debug = FALSE,
  use_cache = TRUE,
  force = FALSE,
  hash_value = NULL
)
```

Arguments

dataset	the name of the dataset that you wish to install or path to a committed dataset zip file
file	Sqlite database file name or path
table_name	table name for installing of dataset
data_dir	the dir path to store the db, defaults to working dir
debug	setting TRUE helps in debugging in case of errors
use_cache	setting FALSE reinstalls scripts even if they are already installed
force	setting TRUE doesn't prompt for confirmation while installing committed datasets when changes are discovered in environment
hash_value	the hash value of committed dataset when installing from provenance directory

Value

No return value, installs datasets into SQLite database

Examples

```
## Not run:
rdataretriever::install_sqlite(dataset = "iris", file = "sqlite.db")

## End(Not run)
```

`install_xml`*Install datasets via the Data Retriever.*

Description

Data is stored in XML files

Usage

```
install_xml(  
  dataset,  
  table_name = "{db}_{table}.xml",  
  data_dir = getwd(),  
  debug = FALSE,  
  use_cache = TRUE,  
  force = FALSE,  
  hash_value = NULL  
)
```

Arguments

<code>dataset</code>	the name of the dataset that you wish to install or path to a committed dataset zip file
<code>table_name</code>	the name of the database file to store data
<code>data_dir</code>	the dir path to store data, defaults to working dir
<code>debug</code>	setting TRUE helps in debugging in case of errors
<code>use_cache</code>	Setting FALSE reinstalls scripts even if they are already installed
<code>force</code>	setting TRUE doesn't prompt for confirmation while installing committed datasets when changes are discovered in environment
<code>hash_value</code>	the hash value of committed dataset when installing from provenance directory

Value

No return value, installs datasets into XML

Examples

```
## Not run:  
rdataretriever::install_xml("iris")  
  
## End(Not run)
```

reload_scripts	<i>Update the retriever's global_script_list with the scripts present in the ~/.retriever directory.</i>
----------------	--

Description

Update the retriever's global_script_list with the scripts present in the ~/.retriever directory.

Usage

```
reload_scripts()
```

Value

No return value, fetches most resent scripts

Examples

```
## Not run:  
rdataretriever::reload_scripts()  
  
## End(Not run)
```

reset	<i>Reset the scripts or data(raw_data) directory or both</i>
-------	--

Description

Reset the scripts or data(raw_data) directory or both

Usage

```
reset(scope = "all")
```

Arguments

scope	All resets both scripst and data directory
-------	--

Value

No return value, resets the scripts and the data directory

Examples

```
## Not run:  
rdataretriever::reset("iris")  
  
## End(Not run)
```

`socrata_autocomplete_search`*Returns the list of dataset names after autocompletion*

Description

Returns the list of dataset names after autocompletion

Usage

```
socrata_autocomplete_search(dataset)
```

Arguments

`dataset` the name of the dataset

Value

No return value, show dataset names after autocompletion

Examples

```
## Not run:  
rdataretriever::socrata_autocomplete_search()  
  
## End(Not run)
```

`socrata_dataset_info` *Get socrata dataset info*

Description

Get socrata dataset info

Usage

```
socrata_dataset_info(dataset_name)
```

Arguments

`dataset_name` dataset name to obtain info

Value

No return value, shows socrata dataset info

Examples

```
## Not run:  
rdataretriever::socrata_dataset_info()  
  
## End(Not run)
```

update_rdataset_catalog

Updates the datasets_url.json from the github repo

Description

Updates the datasets_url.json from the github repo

Usage

```
update_rdataset_catalog(test = FALSE)
```

Arguments

test flag set when testing

Value

No return value, updates the datasets_url.json

Examples

```
## Not run:  
rdataretriever::update_rdataset_catalog()  
  
## End(Not run)
```

use_RetrieverPath

Setting path of retriever

Description

Setting path of retriever

Usage

```
use_RetrieverPath(path)
```

Arguments

path location of retriever in the system

Value

No return value, setting path of retriever

Examples

```
## Not run:  
rdataretriever::use_RetrieverPath("/home/<system_name>/anaconda2/envs/py27/bin/")  
  
## End(Not run)
```

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