## Package 'metajam'

August 16, 2024

```
Type Package
Title Easily Download Data and Metadata from 'DataONE'
Version 0.3.1
Date 2024-08-06
Maintainer Julien Brun < julien.brun@alumni.duke.edu>
Description A set of tools to foster the development of reproducible analytical workflow by simplify-
      ing the download of data and
      metadata from 'DataONE' (<https:
      //www.dataone.org>) and easily importing this information into R.
License Apache License (== 2.0)
Encoding UTF-8
Language en-US
RoxygenNote 7.3.2
SystemRequirements Mac OSX: redland (>= 1.0.14); Linux: librdf0 (>=
      1.0.14), librdf0-dev (>= 1.0.14)
URL https://nceas.github.io/metajam/, https://github.com/NCEAS/metajam
BugReports https://github.com/NCEAS/metajam/issues
Depends R (>= 3.6.0)
Imports dataone, dplyr, EML, emld, lubridate, purrr, readr, stats,
      stringr, tibble, tidyr, XML
Suggests knitr, rmarkdown, testthat
VignetteBuilder knitr
NeedsCompilation no
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check\_version

```
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## Repository CRAN

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## Description

This function takes an identifier and checks to see if it has been obsoleted.

#### Usage

```
check_version(pid, formatType = NULL)
```

#### **Arguments**

pid (character) The persistent identifier of a data, metadata, or resource map object

on a DataONE member node.

formatType (character) Optional. The format type to return (one of 'data', 'metadata', or

'resource').

#### Value

(data.frame) A data frame of object version PIDs and related information.

## **Examples**

```
## Not run:
# Most data URLs and identifiers work
check_version("https://cn.dataone.org/cn/v2/resolve/urn:uuid:a2834e3e-f453-4c2b-8343-99477662b570")
check_version("doi:10.18739/A2ZF6M")

# Specify a formatType (data, metadata, or resource)
check_version("doi:10.18739/A2ZF6M", formatType = "metadata")
```

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```
# Returns a warning if the identifier has been obsoleted
check_version("doi:10.18739/A2HF7Z", formatType = "metadata")

# Returns an error if no matching identifiers are found
check_version("a_test_pid")

# Returns a warning if several identifiers are returned
check_version("10.18739/A2057CR99")

## End(Not run)
```

download\_d1\_data

Download data and metadata from DataONE

## Description

Downloads a data object from DataONE along with metadata.

## Usage

```
download_d1_data(data_url, path)
```

#### **Arguments**

```
data_url (character) An identifier or URL for a DataONE object to download.

path (character) Path to a directory to download data to.
```

#### Value

(character) Path where data is downloaded to.

#### See Also

```
[read_d1_files()] [download_d1_data_pkg()]
```

#### **Examples**

```
## Not run:
download_d1_data("urn:uuid:a2834e3e-f453-4c2b-8343-99477662b570", path = file.path("."))
download_d1_data(
   "https://cn.dataone.org/cn/v2/resolve/urn:uuid:a2834e3e-f453-4c2b-8343-99477662b570",
    path = file.path(".")
    )

## End(Not run)
```

read\_d1\_files

## Description

Downloads all the data objects of a data package from DataONE along with metadata.

## Usage

```
download_d1_data_pkg(meta_obj, path)
```

#### **Arguments**

```
meta_obj (character) A DOI or metadata object PID for a DataONE package to download.

path (character) Path to a directory to download data to.
```

#### Value

(list) Paths where data are downloaded to.

#### See Also

```
[read_d1_files()] [download_d1_data()]
```

## **Examples**

```
## Not run:
download_d1_data_pkg("doi:10.18739/A2028W", ".")
download_d1_data_pkg("https://doi.org/10.18739/A2028W", ".")
## End(Not run)
```

read\_d1\_files

Read data and metadata based on 'download\_d1\_data()' file structure

## **Description**

Reads data along with metadata into your R environment based on [download\_d1\_data()] file structure.

## Usage

```
read_d1_files(folder_path, fnc = "read_csv", ...)
```

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#### **Arguments**

folder\_path (character) Path to a directory where data and metadata are located.

fnc (character) Function to be used to read the data (default is [readr::read\_csv()]).

... Parameters to pass into the function specified in 'fnc'.

#### Value

(list) Named list containing data and metadata as data frames.

#### See Also

```
[download_d1_data()] [download_d1_data_pkg()]
```

#### **Examples**

tabularize\_eml

Get tabular metadata

#### **Description**

This function takes a path to an EML (.xml) metadata file and returns a data frame.

## Usage

```
tabularize_eml(eml, full = FALSE)
```

#### **Arguments**

eml An emld class object, the path to an EML (.xml) metadata file, or a raw EML

object.

full (logical) Returns the most commonly used metadata fields by default. If full =

TRUE is specified, the full set of metadata fields are returned.

#### Value

(data.frame) A data frame of selected EML values.

#### **Examples**

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