

# Package ‘zen4R’

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**Title** Interface to 'Zenodo' REST API

**Maintainer** Emmanuel Blondel <emmanuel.blondel1@gmail.com>

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**Description** Provides an Interface to 'Zenodo' (<<https://zenodo.org>>) REST API, including management of depositions, attribution of DOIs by 'Zenodo' and upload and download of files.

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**Author** Emmanuel Blondel [aut, cre] (<<https://orcid.org/0000-0002-5870-5762>>),  
Julien Barde [ctb] (<<https://orcid.org/0000-0002-3519-6141>>),  
Stephen Eglen [ctb] (<<https://orcid.org/0000-0001-8607-8025>>),  
Hans Van Calster [ctb] (<<https://orcid.org/0000-0001-8595-8426>>),  
Floris Vanderhaeghe [ctb] (<<https://orcid.org/0000-0002-6378-6229>>)

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download_zenodo	<i>download_zenodo</i>
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### Description

download\_zenodo allows to download archives attached to a Zenodo record, identified by its DOI or concept DOI.

### Usage

```
download_zenodo(
  doi,
  path = ".",
  files = list(),
  logger = NULL,
  quiet = FALSE,
  ...
)
```

### Arguments

doi	a Zenodo DOI or concept DOI
path	the target directory where to download files
files	subset of filenames to restrain to download. If ignored, all files will be downloaded.
logger	a logger to print Zenodo API-related messages. The logger can be either NULL, "INFO" (with minimum logs), or "DEBUG" (for complete curl http calls logs)
quiet	Logical (FALSE by default). Do you want to suppress informative messages (not warnings)?
...	any other arguments for parallel downloading (more information at <a href="#">ZenodoRecord</a> , <a href="#">downloadFiles()</a> documentation)

**Examples**

```
## Not run:
#simple download (sequential)
download_zenodo("10.5281/zenodo.2547036")

library(parallel)
#download files as parallel using a cluster approach (for both Unix/Win systems)
download_zenodo("10.5281/zenodo.2547036",
  parallel = TRUE, parallel_handler = parLapply, cl = makeCluster(2))

#download files as parallel using mclapply (for Unix systems)
download_zenodo("10.5281/zenodo.2547036",
  parallel = TRUE, parallel_handler = mclapply, mc.cores = 2)

## End(Not run)
```

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export_zenodo	<i>export_zenodo</i>
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**Description**

export\_zenodo allows to export a Zenodo record, identified by its DOI or concept DOI, using one of the export formats supported by Zenodo.

**Usage**

```
export_zenodo(doi, filename, format, append_format = TRUE, logger = NULL)
```

**Arguments**

doi	a Zenodo DOI or concept DOI
filename	a base file name (without file extension) to export to.
format	a valid Zenodo export format among the following: BibTeX, CSL, DataCite, DublinCore, DCAT, JSON, JSON-LD, GeoJSON, MARCXML.
append_format	wether format name has to be appended to the filename. Default is TRUE (for backward compatibility reasons). Set it to FALSE if you want to use only the filename.
logger	a logger to print Zenodo API-related messages. The logger can be either NULL, "INFO" (with minimum logs), or "DEBUG" (for complete curl http calls logs)

**Value**

the exported file name (with extension)

**Examples**

```
## Not run:
  export_zenodo("10.5281/zenodo.2547036", filename = "test", format = "BibTeX", append_format = F)

## End(Not run)
```

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get_versions	<i>get_versions</i>
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**Description**

get\_versions allows to execute a workflow

**Usage**

```
get_versions(doi, logger = NULL)
```

**Arguments**

doi	a Zenodo DOI or concept DOI
logger	a logger to print messages. The logger can be either NULL, "INFO" (with minimum logs), or "DEBUG" (for complete curl http calls logs)

**Value**

an object of class data.frame giving the record versions including date, version number and version-specific DOI.

**Examples**

```
## Not run:
  get_versions("10.5281/zenodo.2547036")

## End(Not run)
```

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zen4R	<i>Interface to 'Zenodo' REST API</i>
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**Description**

Provides an Interface to 'Zenodo' (<<https://zenodo.org>>) REST API, including management of depositions, attribution of DOIs by 'Zenodo', upload and download of files.

**Author(s)**

Emmanuel Blondel <[emmanuel.blondel1@gmail.com](mailto:emmanuel.blondel1@gmail.com)>

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zen4RLogger

*zen4RLogger*

---

### Description

zen4RLogger

zen4RLogger

### Format

[R6Class](#) object.

### Value

Object of [R6Class](#) for modelling a simple logger

### Public fields

verbose.info logger info status

verbose.debug logger debug status

loggerType Logger type, either "INFO", "DEBUG" or NULL (if no logger)

### Methods

#### Public methods:

- [zen4RLogger\\$logger\(\)](#)
- [zen4RLogger\\$INFO\(\)](#)
- [zen4RLogger\\$WARN\(\)](#)
- [zen4RLogger\\$ERROR\(\)](#)
- [zen4RLogger\\$new\(\)](#)
- [zen4RLogger\\$getClassName\(\)](#)
- [zen4RLogger\\$getClass\(\)](#)
- [zen4RLogger\\$clone\(\)](#)

**Method** [logger\(\)](#): internal logger function for the Zenodo manager

*Usage:*

```
zen4RLogger$logger(type, text)
```

*Arguments:*

type logger message type, "INFO", "WARN", or "ERROR"

text log message

**Method** [INFO\(\)](#): internal INFO logger function

*Usage:*

```
zen4RLogger$INFO(text)
```

*Arguments:*

text log message

**Method** WARN(): internal WARN logger function

*Usage:*

zen4RLogger\$WARN(text)

*Arguments:*

text log message

**Method** ERROR(): internal ERROR logger function

*Usage:*

zen4RLogger\$ERROR(text)

*Arguments:*

text log message

**Method** new(): initialize the Zenodo logger

*Usage:*

zen4RLogger\$new(logger = NULL)

*Arguments:*

logger logger type NULL, 'INFO', or 'DEBUG'

**Method** getClassName(): Get object class name

*Usage:*

zen4RLogger\$getClassName()

*Returns:* the class name, object of class character

**Method** getClass(): Get object class

*Usage:*

zen4RLogger\$getClass()

*Returns:* the class, object of class R6

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

*Usage:*

zen4RLogger\$clone(deep = FALSE)

*Arguments:*

deep Whether to make a deep clone.

## Note

Logger class used internally by zen4R

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ZenodoManager	<i>ZenodoManager</i>
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**Description**

ZenodoManager

ZenodoManager

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling an ZenodoManager

**Super class**

[zen4R](#): [zen4RLogger](#) -> ZenodoManager

**Public fields**

anonymous Zenodo manager anonymous status, TRUE when no token is specified

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

- [ZenodoManager\\$new\(\)](#)
- [ZenodoManager\\$getToken\(\)](#)
- [ZenodoManager\\$getLicenses\(\)](#)
- [ZenodoManager\\$getLicenseById\(\)](#)
- [ZenodoManager\\$getCommunities\(\)](#)
- [ZenodoManager\\$getCommunityById\(\)](#)
- [ZenodoManager\\$getGrants\(\)](#)
- [ZenodoManager\\$getGrantById\(\)](#)
- [ZenodoManager\\$getFunders\(\)](#)
- [ZenodoManager\\$getFunderById\(\)](#)
- [ZenodoManager\\$getDepositions\(\)](#)
- [ZenodoManager\\$getDepositionByConceptDOI\(\)](#)
- [ZenodoManager\\$getDepositionByDOI\(\)](#)
- [ZenodoManager\\$getDepositionById\(\)](#)
- [ZenodoManager\\$getDepositionByConceptId\(\)](#)
- [ZenodoManager\\$depositRecord\(\)](#)
- [ZenodoManager\\$depositRecordVersion\(\)](#)

- `ZenodoManager$deleteRecord()`
- `ZenodoManager$deleteRecordByDOI()`
- `ZenodoManager$deleteRecords()`
- `ZenodoManager$createEmptyRecord()`
- `ZenodoManager$editRecord()`
- `ZenodoManager$discardChanges()`
- `ZenodoManager$publishRecord()`
- `ZenodoManager$getFiles()`
- `ZenodoManager$uploadFile()`
- `ZenodoManager$deleteFile()`
- `ZenodoManager$getRecords()`
- `ZenodoManager$getRecordByConceptDOI()`
- `ZenodoManager$getRecordByDOI()`
- `ZenodoManager$getRecordById()`
- `ZenodoManager$getRecordByConceptId()`
- `ZenodoManager$clone()`

**Method** `new()`: initializes the Zenodo Manager

*Usage:*

```
ZenodoManager$new(
  url = "https://zenodo.org/api",
  token = zenodo_pat(),
  logger = NULL,
  keyring_backend = "env"
)
```

*Arguments:*

`url` Zenodo API URL. By default, the url is set to "https://zenodo.org/api". For tests, the Zenodo sandbox API URL can be used: https://sandbox.zenodo.org/api

`token` the user token. By default an attempt will be made to retrieve token using `zenodo_pat`

`logger` logger type. The logger can be either NULL, "INFO" (with minimum logs), or "DEBUG" (for complete curl http calls logs)

`keyring_backend` The **keyring** backend used to store user token. The `keyring_backend` can be set to use a different backend for storing the Zenodo token with **keyring** (Default value is 'env').

**Method** `getToken()`: Get user token

*Usage:*

```
ZenodoManager$getToken()
```

*Returns:* the token, object of class character

**Method** `getLicenses()`: Get Licenses supported by Zenodo.

*Usage:*

```
ZenodoManager$getLicenses(pretty = TRUE)
```

*Arguments:*



`pretty` Prettify the output. By default the argument `pretty` is set to `TRUE` which will returns the list of licenses as `data.frame`. Set `pretty = FALSE` to get the raw list of licenses.

*Returns:* list of licenses as `data.frame` or list

**Method** `getLicenseById()`: Get license by Id.

*Usage:*

```
ZenodoManager$getLicenseById(id)
```

*Arguments:*

`id` license id

*Returns:* the license

**Method** `getCommunities()`: Get Communities supported by Zenodo.

*Usage:*

```
ZenodoManager$getCommunities(pretty = TRUE)
```

*Arguments:*

`pretty` Prettify the output. By default the argument `pretty` is set to `TRUE` which will returns the list of communities as `data.frame`. Set `pretty = FALSE` to get the raw list of communities

*Returns:* list of communities as `data.frame` or list

**Method** `getCommunityById()`: Get community by Id.

*Usage:*

```
ZenodoManager$getCommunityById(id)
```

*Arguments:*

`id` community id

*Returns:* the community

**Method** `getGrants()`: Get Grants supported by Zenodo.

*Usage:*

```
ZenodoManager$getGrants(pretty = TRUE, size = 1000)
```

*Arguments:*

`pretty` Prettify the output. By default the argument `pretty` is set to `TRUE` which will returns the list of grants as `data.frame`. Set `pretty = FALSE` to get the raw list of grants

`size` number of grants to be returned. By default equal to 1000.

*Returns:* list of grants as `data.frame` or list

**Method** `getGrantById()`: Get grant by Id.

*Usage:*

```
ZenodoManager$getGrantById(id)
```

*Arguments:*

`id` grant id

*Returns:* the grant

**Method** `getFunders()`: Get Funders supported by Zenodo.

*Usage:*

```
ZenodoManager$getFunders(pretty = TRUE, size = 1000)
```

*Arguments:*

`pretty` Prettify the output. By default the argument `pretty` is set to `TRUE` which will return the list of funders as `data.frame`. Set `pretty = FALSE` to get the raw list of grants  
`size` number of funders to be returned. By default equal to 1000.

*Returns:* list of funders as `data.frame` or `list`

**Method** `getFunderById()`: Get funder by Id.

*Usage:*

```
ZenodoManager$getFunderById(id)
```

*Arguments:*

`id` funder id

*Returns:* the funder

**Method** `getDepositions()`: Get the list of Zenodo records deposited in your Zenodo workspace. By default the list of depositions will be returned by page with a size of 10 results per page (default size of the Zenodo API). The parameter `q` allows to specify an ElasticSearch-compliant query to filter depositions (default query is empty to retrieve all records). The argument `all_versions`, if set to `TRUE` allows to get all versions of records as part of the depositions list. The argument `exact` specifies that an exact matching is wished, in which case paginated search will be disabled (only the first search page will be returned). Examples of ElasticSearch queries for Zenodo can be found at <https://help.zenodo.org/guides/search/>.

*Usage:*

```
ZenodoManager$getDepositions(
  q = "",
  size = 10,
  all_versions = FALSE,
  exact = TRUE,
  quiet = FALSE
)
```

*Arguments:*

`q` Elastic-Search-compliant query, as object of class `character`. Default is ""

`size` number of depositions to be retrieved per request (paginated). Default is 10

`all_versions` object of class `logical` indicating if all versions of deposits have to be retrieved. Default is `FALSE`

`exact` object of class `logical` indicating if exact matching has to be applied. Default is `TRUE`

`quiet` object of class `logical` indicating if logs have to be skipped. Default is `FALSE`

*Returns:* a list of `ZenodoRecord`

**Method** `getDepositionByConceptDOI()`: Get a Zenodo deposition record by concept DOI (generic DOI common to all deposition record versions).

*Usage:*

```
ZenodoManager$getDepositionByConceptDOI(conceptdoi)
```

*Arguments:*

conceptdoi the concept DOI, object of class character

*Returns:* an object of class ZenodoRecord if record does exist, NULL otherwise

**Method** `getDepositionByDOI()`: Get a Zenodo deposition record by DOI.

*Usage:*

```
ZenodoManager$getDepositionByDOI(doi)
```

*Arguments:*

doi the DOI, object of class character

*Returns:* an object of class ZenodoRecord if record does exist, NULL otherwise

**Method** `getDepositionById()`: Get a Zenodo deposition record by ID.

*Usage:*

```
ZenodoManager$getDepositionById(recid)
```

*Arguments:*

recid the record ID, object of class character

*Returns:* an object of class ZenodoRecord if record does exist, NULL otherwise

**Method** `getDepositionByConceptId()`: Get a Zenodo deposition record by concept ID.

*Usage:*

```
ZenodoManager$getDepositionByConceptId(conceptrecid)
```

*Arguments:*

conceptrecid the record concept ID, object of class character

*Returns:* an object of class ZenodoRecord if record does exist, NULL otherwise

**Method** `depositRecord()`: Deposits a record on Zenodo.

*Usage:*

```
ZenodoManager$depositRecord(record, publish = FALSE)
```

*Arguments:*

record the record to deposit, object of class ZenodoRecord

publish object of class logical indicating if record has to be published (default FALSE). Can be set to TRUE (to use CAUTIOUSLY, only if you want to publish your record)

*Returns:* TRUE if deposited (and eventually published), FALSE otherwise

**Method** `depositRecordVersion()`: Deposits a record version on Zenodo. For details about the behavior of this function, see <https://developers.zenodo.org/#new-version>

*Usage:*

```
ZenodoManager$depositRecordVersion(  
  record,  
  delete_latest_files = TRUE,  
  files = list(),  
  publish = FALSE  
)
```

*Arguments:*

record the record version to deposit, object of class ZenodoRecord

delete\_latest\_files object of class logical indicating if latest files have to be deleted.

Default is TRUE

files a list of files to be uploaded with the new record version

publish object of class logical indicating if record has to be published (default FALSE)

*Returns:* TRUE if deposited (and eventually published), FALSE otherwise

**Method deleteRecord():** Deletes a record given its ID

*Usage:*

```
ZenodoManager$deleteRecord(recordId)
```

*Arguments:*

recordId the ID of the record to be deleted

*Returns:* TRUE if deleted, FALSE otherwise

**Method deleteRecordByDOI():** Deletes a record by DOI

*Usage:*

```
ZenodoManager$deleteRecordByDOI(doi)
```

*Arguments:*

doi the DOI of the record to be deleted

*Returns:* TRUE if deleted, FALSE otherwise

**Method deleteRecords():** Deletes all Zenodo deposited (unpublished) records. The parameter q allows to specify an ElasticSearch-compliant query to filter depositions (default query is empty to retrieve all records). Examples of ElasticSearch queries for Zenodo can be found at <https://help.zenodo.org/guides/search/>.

*Usage:*

```
ZenodoManager$deleteRecords(q = "", size = 10)
```

*Arguments:*

q an ElasticSearch compliant query, object of class character

size number of records to be passed to \$getDepositions method

*Returns:* TRUE if all records have been deleted, FALSE otherwise

**Method createEmptyRecord():** Creates an empty record in the Zenodo deposit. Returns the record newly created in Zenodo, as an object of class ZenodoRecord with an assigned identifier.

*Usage:*

```
ZenodoManager$createEmptyRecord()
```

*Returns:* an object of class ZenodoRecord

**Method editRecord():** Unlocks a record already submitted. Required to edit metadata of a Zenodo record already published.

*Usage:*

```
ZenodoManager$editRecord(recordId)
```

*Arguments:*

recordId the ID of the record to unlock and set in editing mode.

*Returns:* an object of class ZenodoRecord

**Method** discardChanges(): Discards changes on a Zenodo record.

*Usage:*

```
ZenodoManager$discardChanges(recordId)
```

*Arguments:*

recordId the ID of the record for which changes have to be discarded.

*Returns:* an object of class ZenodoRecord

**Method** publishRecord(): Publishes a Zenodo record.

*Usage:*

```
ZenodoManager$publishRecord(recordId)
```

*Arguments:*

recordId the ID of the record to be published.

*Returns:* an object of class ZenodoRecord

**Method** getFiles(): Get list of files attached to a Zenodo record.

*Usage:*

```
ZenodoManager$getFiles(recordId)
```

*Arguments:*

recordId the ID of the record.

*Returns:* list of files

**Method** uploadFile(): Uploads a file to a Zenodo record

*Usage:*

```
ZenodoManager$uploadFile(path, record = NULL, recordId = NULL)
```

*Arguments:*

path Local path of the file

record object of class ZenodoRecord

recordId ID of the record. Deprecated, use record instead to take advantage of the new Zenodo bucket upload API.

**Method** deleteFile(): Deletes a file for a record

*Usage:*

```
ZenodoManager$deleteFile(recordId, fileId)
```

*Arguments:*

recordId ID of the record

fileId ID of the file to delete

**Method** `getRecords()`: Get the list of Zenodo records. By default the list of records will be returned by page with a size of 10 results per page (default size of the Zenodo API). The parameter `q` allows to specify an ElasticSearch-compliant query to filter depositions (default query is empty to retrieve all records). The argument `all_versions`, if set to `TRUE` allows to get all versions of records as part of the depositions list. The argument `exact` specifies that an exact matching is wished, in which case paginated search will be disabled (only the first search page will be returned). Examples of ElasticSearch queries for Zenodo can be found at <https://help.zenodo.org/guides/search/>.

*Usage:*

```
ZenodoManager$getRecords(
  q = "",
  size = 10,
  all_versions = FALSE,
  exact = FALSE
)
```

*Arguments:*

`q` Elastic-Search-compliant query, as object of class character. Default is ""  
`size` number of records to be retrieved per request (paginated). Default is 10  
`all_versions` object of class logical indicating if all versions of records have to be retrieved.  
 Default is FALSE  
`exact` object of class logical indicating if exact matching has to be applied. Default is TRUE  
`quiet` object of class logical indicating if logs have to be skipped. Default is FALSE

*Returns:* a list of ZenodoRecord

**Method** `getRecordByConceptDOI()`: Get Record by concept DOI

*Usage:*

```
ZenodoManager$getRecordByConceptDOI(conceptdoi)
```

*Arguments:*

`conceptdoi` the concept DOI

*Returns:* a object of class ZenodoRecord

**Method** `getRecordByDOI()`: Get Record by DOI

*Usage:*

```
ZenodoManager$getRecordByDOI(doi)
```

*Arguments:*

`doi` the DOI

*Returns:* a object of class ZenodoRecord

**Method** `getRecordById()`: Get Record by ID

*Usage:*

```
ZenodoManager$getRecordById(recid)
```

*Arguments:*

`recid` the record ID

*Returns:* a object of class ZenodoRecord

**Method** getRecordByConceptId(): Get Record by concept ID

*Usage:*

```
ZenodoManager$getRecordByConceptId(conceptrecid)
```

*Arguments:*

conceptrecid the concept ID

*Returns:* a object of class ZenodoRecord

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

*Usage:*

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

*Arguments:*

deep Whether to make a deep clone.

## Note

Main user class to be used with **zen4R**

## Author(s)

Emmanuel Blondel <emmanuel.blondell@gmail.com>

## Examples

```
## Not run:
ZENODO <- ZenodoManager$new(
  url = "https://sandbox.zenodo.org/api",
  token = "<your_token>",
  logger = "INFO"
)

#create (deposit) an empty record
newRec <- ZENODO$createEmptyRecord()

#create and fill a local (not yet deposited) record
myrec <- ZenodoRecord$new()
myrec$setTitle("my R package")
myrec$setDescription("A description of my R package")
myrec$setUploadType("software")
myrec$addCreator(
  firstname = "John", lastname = "Doe",
  affiliation = "Independent", orcid = "0000-0000-0000-0000"
)
myrec$setLicense("mit")
myrec$setAccessRight("open")
myrec$setDOI("mydoi") #use this method if your DOI has been assigned elsewhere, outside Zenodo
myrec$addCommunity("ecfunded")
```

```

#deposit the record
myrec <- ZENODO$depositRecord(myrec)

#publish a record (with caution!!)
#this method will PUBLISH the deposition done earlier
ZENODO$publishRecord(myrec$id)
#With even more caution the publication can be done with a shortcut argument at deposit time
ZENODO$depositRecord(myrec, publish = TRUE)

#delete a record (by id)
#this methods only works for unpublished deposits
#(if a record is published, it cannot be deleted anymore!)
ZENODO$deleteRecord(myrec$id)

#HOW TO UPLOAD FILES to a deposit

#upload a file
ZENODO$uploadFile("path/to/your/file", record = myrec)

#list files
zen_files <- ZENODO$getFiles(myrec$id)

#delete a file?
ZENODO$deleteFile(myrec$id, zen_files[[1]]$id)

## End(Not run)

```

---

ZenodoRecord

*ZenodoRecord*


---

## Description

ZenodoRecord

ZenodoRecord

## Format

[R6Class](#) object.

## Value

Object of [R6Class](#) for modelling an ZenodoRecord

## Super class

[zen4R::zen4RLogger](#) -> ZenodoRecord



**Public fields**

conceptdoi record Concept DOI (common to all record versions)  
conceptrecid record concept id  
created record creation date  
doi record doi  
doi\_url record doi URL  
files list of files associated to the record  
id record id  
links list of links associated to the record  
metadata metadata elements associated to the record  
modified record modification date  
owner record owner  
record\_id record\_id  
state record state  
submitted record submission status  
title record title  
version record version

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

- [ZenodoRecord\\$new\(\)](#)
- [ZenodoRecord\\$prereserveDOI\(\)](#)
- [ZenodoRecord\\$setDOI\(\)](#)
- [ZenodoRecord\\$getConceptDOI\(\)](#)
- [ZenodoRecord\\$getFirstDOI\(\)](#)
- [ZenodoRecord\\$getLastDOI\(\)](#)
- [ZenodoRecord\\$getVersions\(\)](#)
- [ZenodoRecord\\$setUploadType\(\)](#)
- [ZenodoRecord\\$setPublicationType\(\)](#)
- [ZenodoRecord\\$setImageType\(\)](#)
- [ZenodoRecord\\$setPublicationDate\(\)](#)
- [ZenodoRecord\\$setEmbargoDate\(\)](#)
- [ZenodoRecord\\$setTitle\(\)](#)
- [ZenodoRecord\\$setDescription\(\)](#)
- [ZenodoRecord\\$setAccessRight\(\)](#)
- [ZenodoRecord\\$setAccessConditions\(\)](#)
- [ZenodoRecord\\$addCreator\(\)](#)
- [ZenodoRecord\\$removeCreator\(\)](#)
- [ZenodoRecord\\$removeCreatorByName\(\)](#)

- `ZenodoRecord$removeCreatorByAffiliation()`
- `ZenodoRecord$removeCreatorByORCID()`
- `ZenodoRecord$removeCreatorByGND()`
- `ZenodoRecord$addContributor()`
- `ZenodoRecord$removeContributor()`
- `ZenodoRecord$removeContributorByName()`
- `ZenodoRecord$removeContributorByAffiliation()`
- `ZenodoRecord$removeContributorByORCID()`
- `ZenodoRecord$removeContributorByGND()`
- `ZenodoRecord$setLicense()`
- `ZenodoRecord$setVersion()`
- `ZenodoRecord$setLanguage()`
- `ZenodoRecord$addRelatedIdentifier()`
- `ZenodoRecord$removeRelatedIdentifier()`
- `ZenodoRecord$setReferences()`
- `ZenodoRecord$addReference()`
- `ZenodoRecord$removeReference()`
- `ZenodoRecord$setKeywords()`
- `ZenodoRecord$addKeyword()`
- `ZenodoRecord$removeKeyword()`
- `ZenodoRecord$addSubject()`
- `ZenodoRecord$removeSubject()`
- `ZenodoRecord$removeSubjectByTerm()`
- `ZenodoRecord$removeSubjectByIdentifier()`
- `ZenodoRecord$setNotes()`
- `ZenodoRecord$setCommunities()`
- `ZenodoRecord$addCommunity()`
- `ZenodoRecord$removeCommunity()`
- `ZenodoRecord$setGrants()`
- `ZenodoRecord$addGrant()`
- `ZenodoRecord$removeGrant()`
- `ZenodoRecord$setJournalTitle()`
- `ZenodoRecord$setJournalVolume()`
- `ZenodoRecord$setJournalIssue()`
- `ZenodoRecord$setJournalPages()`
- `ZenodoRecord$setConferenceTitle()`
- `ZenodoRecord$setConferenceAcronym()`
- `ZenodoRecord$setConferenceDates()`
- `ZenodoRecord$setConferencePlace()`
- `ZenodoRecord$setConferenceUrl()`
- `ZenodoRecord$setConferenceSession()`
- `ZenodoRecord$setConferenceSessionPart()`

- `ZenodoRecord$setImprintPublisher()`
- `ZenodoRecord$setImprintISBN()`
- `ZenodoRecord$setImprintPlace()`
- `ZenodoRecord$setPartofTitle()`
- `ZenodoRecord$setPartofPages()`
- `ZenodoRecord$setThesisUniversity()`
- `ZenodoRecord$addThesisSupervisor()`
- `ZenodoRecord$removeThesisSupervisor()`
- `ZenodoRecord$removeThesisSupervisorByName()`
- `ZenodoRecord$removeThesisSupervisorByAffiliation()`
- `ZenodoRecord$removeThesisSupervisorByORCID()`
- `ZenodoRecord$removeThesisSupervisorByGND()`
- `ZenodoRecord$exportAs()`
- `ZenodoRecord$exportAsBibTeX()`
- `ZenodoRecord$exportAsCSL()`
- `ZenodoRecord$exportAsDataCite()`
- `ZenodoRecord$exportAsDublinCore()`
- `ZenodoRecord$exportAsDCAT()`
- `ZenodoRecord$exportAsJSON()`
- `ZenodoRecord$exportAsJSONLD()`
- `ZenodoRecord$exportAsGeoJSON()`
- `ZenodoRecord$exportAsMARCXML()`
- `ZenodoRecord$exportAsAllFormats()`
- `ZenodoRecord$listFiles()`
- `ZenodoRecord$downloadFiles()`
- `ZenodoRecord$print()`
- `ZenodoRecord$toDCEntry()`
- `ZenodoRecord$clone()`

**Method** `new()`: method is used to instantiate a [ZenodoRecord](#)

*Usage:*

```
ZenodoRecord$new(obj = NULL, logger = "INFO")
```

*Arguments:*

`obj` an optional list object to create the record

`logger` a logger to print log messages. It can be either `NULL`, `"INFO"` (with minimum logs), or `"DEBUG"` (for complete curl http calls logs)

**Method** `prereserveDOI()`: Set `prereserve_doi` if `TRUE`, `FALSE` otherwise to create a record without prereserved DOI by Zenodo. By default, this method will be called to prereserve a DOI assuming the record created doesn't yet handle a DOI. To avoid prereserving a DOI call `$prereserveDOI(FALSE)` on your record.

*Usage:*

```
ZenodoRecord$prereserveDOI(prereserve)
```

*Arguments:*

prereserve whether a DOI has to be pre-reserved by Zenodo

**Method** setDOI(): Set the DOI. This method can be used if a DOI has been already assigned outside Zenodo. This method will call the method \$prereserveDOI(FALSE).

*Usage:*

```
ZenodoRecord$setDOI(doi)
```

*Arguments:*

doi DOI to set for the record

**Method** getConceptDOI(): Get the concept (generic) DOI. The concept DOI is a generic DOI common to all versions of a Zenodo record. When a deposit is unsubmitted, this concept DOI is inherited based on the prereserved DOI of the first record version.

*Usage:*

```
ZenodoRecord$getConceptDOI()
```

*Returns:* the concept DOI, object of class character

**Method** getFirstDOI(): Get DOI of the first record version.

*Usage:*

```
ZenodoRecord$getFirstDOI()
```

*Returns:* the first DOI, object of class character

**Method** getLastDOI(): Get DOI of the latest record version.

*Usage:*

```
ZenodoRecord$getLastDOI()
```

*Returns:* the last DOI, object of class character

**Method** getVersions(): Get record versions with creation/publication date, version (ordering number) and DOI.

*Usage:*

```
ZenodoRecord$getVersions()
```

*Returns:* a data.frame with the record versions

**Method** setUploadType(): Set the upload type (mandatory).

*Usage:*

```
ZenodoRecord$setUploadType(uploadType)
```

*Arguments:*

uploadType record upload type among the following values: 'publication', 'poster', 'presentation', 'dataset', 'image', 'video' or 'software'

**Method** setPublicationType(): Set the publication type (mandatory if upload type is 'publication').

*Usage:*

```
ZenodoRecord$setPublicationType(publicationType)
```

*Arguments:*

publicationType record publication type among the following values: 'book', 'section', 'conferencepaper', 'article', 'patent', 'preprint', 'report', 'softwaredocumentation', 'thesis', 'technicalnote', 'workingpaper', or 'other'

**Method** setImageType(): Set the image type (mandatory if image type is 'image').

*Usage:*

```
ZenodoRecord.setImageType(imageType)
```

*Arguments:*

imageType record publication type among the following values: 'figure', 'plot', 'drawing', 'diagram', 'photo', or 'other'

**Method** setPublicationDate(): Set the publication date.

*Usage:*

```
ZenodoRecord.setPublicationDate(publicationDate)
```

*Arguments:*

publicationDate object of class Date

**Method** setEmbargoDate(): Set the embargo date.

*Usage:*

```
ZenodoRecord.setEmbargoDate(embargoDate)
```

*Arguments:*

embargoDate object of class Date

**Method** setTitle(): Set the record title.

*Usage:*

```
ZenodoRecord.setTitle(title)
```

*Arguments:*

title object of class character

**Method** setDescription(): Set the record description

*Usage:*

```
ZenodoRecord.setDescription(description)
```

*Arguments:*

description object of class character

**Method** setAccessRight(): Set the access right.

*Usage:*

```
ZenodoRecord.setAccessRight(accessRight)
```

*Arguments:*

accessRight record access right among the following values: 'open', 'embargoed', 'restricted', 'closed'

**Method** setAccessConditions(): set the access conditions.

*Usage:*

```
ZenodoRecord$setAccessConditions(accessConditions)
```

*Arguments:*

accessConditions object of class character

**Method addCreator():** Add a creator for the record. One approach is to use the `firstname` and `lastname` arguments, that by default will be concatenated for Zenodo as `lastname, firstname`. For more flexibility over this, the `name` argument can be directly used.

*Usage:*

```
ZenodoRecord$addCreator(
  firstname,
  lastname,
  name = paste(lastname, firstname, sep = ", "),
  affiliation = NULL,
  orcid = NULL,
  gnd = NULL
)
```

*Arguments:*

`firstname` creator first name

`lastname` creator last name

`name` creator name

`affiliation` creator affiliation (optional)

`orcid` creator ORCID (optional)

`gnd` creator GND (optional)

*Returns:* TRUE if added, FALSE otherwise

**Method removeCreator():** Removes a creator by a property. The `by` parameter should be the name of the creator property ('name' - in the form 'lastname, firstname', 'affiliation', 'orcid' or 'gnd').

*Usage:*

```
ZenodoRecord$removeCreator(by, property)
```

*Arguments:*

`by` property used as criterion to remove the creator

`property` property value used to remove the creator

*Returns:* TRUE if removed, FALSE otherwise

**Method removeCreatorByName():** Removes a creator by name.

*Usage:*

```
ZenodoRecord$removeCreatorByName(name)
```

*Arguments:*

`name` creator name

*Returns:* TRUE if removed, FALSE otherwise

**Method removeCreatorByAffiliation():** Removes a creator by affiliation.

*Usage:*

```
ZenodoRecord$removeCreatorByAffiliation(affiliation)
```

*Arguments:*

```
affiliation creator affiliation
```

*Returns:* TRUE if removed, FALSE otherwise

**Method** `removeCreatorByORCID()`: Removes a creator by ORCID.

*Usage:*

```
ZenodoRecord$removeCreatorByORCID(orcid)
```

*Arguments:*

```
orcid creator ORCID
```

*Returns:* TRUE if removed, FALSE otherwise

**Method** `removeCreatorByGND()`: Removes a creator by GND.

*Usage:*

```
ZenodoRecord$removeCreatorByGND(gnd)
```

*Arguments:*

```
gnd creator GND
```

*Returns:* TRUE if removed, FALSE otherwise

**Method** `addContributor()`: Add a contributor for the record. Firstname, lastname, and type are mandatory.

*Usage:*

```
ZenodoRecord$addContributor(
  firstname,
  lastname,
  type,
  affiliation = NULL,
  orcid = NULL,
  gnd = NULL
)
```

*Arguments:*

```
firstname contributor first name
```

```
lastname contributor last name
```

```
type contributor type, among values: ContactPerson, DataCollector, DataCurator, DataManager, Distributor, Editor, Funder, HostingInstitution, Producer, ProjectLeader, ProjectManager, ProjectMember, RegistrationAgency, RegistrationAuthority, RelatedPerson, Researcher, ResearchGroup, RightsHolder, Supervisor, Sponsor, WorkPackageLeader, Other.
```

```
affiliation contributor affiliation (optional)
```

```
orcid contributor orcid (optional)
```

```
gnd contributor gnd (optional)
```

*Returns:* TRUE if added, FALSE otherwise

**Method** `removeContributor()`: Removes a contributor by a property. The `by` parameter should be the name of the contributor property ('name' - in the form 'lastname, firstname', 'affiliation', 'orcid' or 'gnd'). FALSE otherwise.

*Usage:*

```
ZenodoRecord$removeContributor(by, property)
```

*Arguments:*

`by` property used as criterion to remove the contributor  
`property` property value used to remove the contributor

*Returns:* TRUE if removed, FALSE otherwise

**Method** `removeContributorByName()`: Removes a contributor by name.

*Usage:*

```
ZenodoRecord$removeContributorByName(name)
```

*Arguments:*

`name` contributor name

*Returns:* TRUE if removed, FALSE otherwise

**Method** `removeContributorByAffiliation()`: Removes a contributor by affiliation.

*Usage:*

```
ZenodoRecord$removeContributorByAffiliation(affiliation)
```

*Arguments:*

`affiliation` contributor affiliation

*Returns:* TRUE if removed, FALSE otherwise

**Method** `removeContributorByORCID()`: Removes a contributor by ORCID.

*Usage:*

```
ZenodoRecord$removeContributorByORCID(orcid)
```

*Arguments:*

`orcid` contributor ORCID

*Returns:* TRUE if removed, FALSE otherwise

**Method** `removeContributorByGND()`: Removes a contributor by GND.

*Usage:*

```
ZenodoRecord$removeContributorByGND(gnd)
```

*Arguments:*

`gnd` contributor GND

*Returns:* TRUE if removed, FALSE otherwise

**Method** `setLicense()`: Set license. The license should be set with the Zenodo id of the license. If not recognized by Zenodo, the function will return an error. The list of licenses can be fetched with the `ZenodoManager` and the function `$getLicenses()`.

*Usage:*



ZenodoRecord\$setLicense(licenseId)

*Arguments:*

licenseId a license Id

**Method** setVersion(): Set record version.

*Usage:*

ZenodoRecord\$setVersion(version)

*Arguments:*

version the record version to set

**Method** setLanguage(): Set the language.

*Usage:*

ZenodoRecord\$setLanguage(language)

*Arguments:*

language ISO 639-2 or 639-3 code

**Method** addRelatedIdentifier(): Adds a related identifier with a given relation.

*Usage:*

ZenodoRecord\$addRelatedIdentifier(relation, identifier)

*Arguments:*

relation relation type among following values: isCitedBy, cites, isSupplementTo, isSupplementedBy, isNewVersionOf, isPreviousVersionOf, isPartOf, hasPart, compiles, isCompiledBy, isIdenticalTo, isAlternateIdentifier

identifier resource identifier

**Method** removeRelatedIdentifier(): Removes a related identifier with a given relation.

*Usage:*

ZenodoRecord\$removeRelatedIdentifier(relation, identifier)

*Arguments:*

relation relation type among following values: isCitedBy, cites, isSupplementTo, isSupplementedBy, isNewVersionOf, isPreviousVersionOf, isPartOf, hasPart, compiles, isCompiledBy, isIdenticalTo, isAlternateIdentifier

identifier resource identifier

**Method** setReferences(): Set references

*Usage:*

ZenodoRecord\$setReferences(references)

*Arguments:*

references a vector or list of references to set for the record

**Method** addReference(): Add a reference

*Usage:*

ZenodoRecord\$addReference(reference)

*Arguments:*

reference the reference to add

*Returns:* TRUE if added, FALSE otherwise

**Method** removeReference(): Remove a reference

*Usage:*

ZenodoRecord\$removeReference(reference)

*Arguments:*

reference the reference to remove

*Returns:* TRUE if removed, FALSE otherwise

**Method** setKeywords(): Set keywords

*Usage:*

ZenodoRecord\$setKeywords(keywords)

*Arguments:*

keywords a vector or list of keywords to set for the record

**Method** addKeyword(): Add a keyword

*Usage:*

ZenodoRecord\$addKeyword(keyword)

*Arguments:*

keyword the keyword to add

*Returns:* TRUE if added, FALSE otherwise

**Method** removeKeyword(): Remove a keyword

*Usage:*

ZenodoRecord\$removeKeyword(keyword)

*Arguments:*

keyword the keyword to remove

*Returns:* TRUE if removed, FALSE otherwise

**Method** addSubject(): Adds a subject given a term and identifier

*Usage:*

ZenodoRecord\$addSubject(term, identifier)

*Arguments:*

term subject term

identifier subject identifier

**Method** removeSubject(): Removes subject(s) by a property. The by parameter should be the name of the subject property ('term' or 'identifier').

*Usage:*

ZenodoRecord\$removeSubject(by, property)

*Arguments:*

by property used as criterion to remove subjects  
property property value used to remove subjects

*Returns:* TRUE if at least one subject is removed, FALSE otherwise.

**Method** removeSubjectByTerm(): Removes subject(s) by term.

*Usage:*

ZenodoRecord\$removeSubjectByTerm(term)

*Arguments:*

term the term to use to remove subject(s)

*Returns:* TRUE if at least one subject is removed, FALSE otherwise.

**Method** removeSubjectByIdentifier(): Removes subject(s) by identifier

*Usage:*

ZenodoRecord\$removeSubjectByIdentifier(identifier)

*Arguments:*

identifier the identifier to use to remove subject(s)

*Returns:* TRUE if at least one subject is removed, FALSE otherwise.

**Method** setNotes(): Set notes. HTML is not allowed

*Usage:*

ZenodoRecord\$setNotes(notes)

*Arguments:*

notes object of class character

**Method** setCommunities(): Set a vector of character strings identifying communities

*Usage:*

ZenodoRecord\$setCommunities(communities)

*Arguments:*

communities a vector or list of communities. Values should among known communities. The list of communities can fetched with the ZenodoManager and the function \$getCommunities(). Each community should be set with the Zenodo id of the community. If not recognized by Zenodo, the function will return an error.

**Method** addCommunity(): Adds a community to the record metadata.

*Usage:*

ZenodoRecord\$addCommunity(community)

*Arguments:*

community community to add. The community should be set with the Zenodo id of the community. If not recognized by Zenodo, the function will return an error. The list of communities can fetched with the ZenodoManager and the function \$getCommunities().

*Returns:* TRUE if added, FALSE otherwise

**Method** `removeCommunity()`: Removes a community from the record metadata.

*Usage:*

`ZenodoRecord$removeCommunity(community)`

*Arguments:*

`community` community to remove. The community should be set with the Zenodo id of the community.

*Returns:* TRUE if removed, FALSE otherwise

**Method** `setGrants()`: Set a vector of character strings identifying grants

*Usage:*

`ZenodoRecord$setGrants(grants)`

*Arguments:*

`grants` a vector or list of grants Values should among known grants The list of grants can fetched with the `ZenodoManager` and the function `$getGrants()`. Each grant should be set with the Zenodo id of the grant If not recognized by Zenodo, the function will raise a warning only.

**Method** `addGrant()`: Adds a grant to the record metadata.

*Usage:*

`ZenodoRecord$addGrant(grant)`

*Arguments:*

`grant` grant to add. The grant should be set with the id of the grant. If not recognized by Zenodo, the function will return an warning only. The list of grants can fetched with the `ZenodoManager` and the function `$getGrants()`.

*Returns:* TRUE if added, FALSE otherwise

**Method** `removeGrant()`: Removes a grant from the record metadata.

*Usage:*

`ZenodoRecord$removeGrant(grant)`

*Arguments:*

`grant` grant to remove. The grant should be set with the Zenodo id of the grant

*Returns:* TRUE if removed, FALSE otherwise

**Method** `setJournalTitle()`: Set Journal title to the record metadata

*Usage:*

`ZenodoRecord$setJournalTitle(title)`

*Arguments:*

`title` a title, object of class character

**Method** `setJournalVolume()`: Set Journal volume to the record metadata

*Usage:*

`ZenodoRecord$setJournalVolume(volume)`

*Arguments:*

volume a volume

**Method** setJournalIssue(): Set Journal issue to the record metadata

*Usage:*

ZenodoRecord\$setJournalIssue(issue)

*Arguments:*

issue an issue

**Method** setJournalPages(): Set Journal pages to the record metadata

*Usage:*

ZenodoRecord\$setJournalPages(pages)

*Arguments:*

pages number of pages

**Method** setConferenceTitle(): Set conference title to the record metadata

*Usage:*

ZenodoRecord\$setConferenceTitle(title)

*Arguments:*

title conference title, object of class character

**Method** setConferenceAcronym(): Set conference acronym to the record metadata

*Usage:*

ZenodoRecord\$setConferenceAcronym(acronym)

*Arguments:*

acronym conference acronym, object of class character

**Method** setConferenceDates(): Set conference dates to the record metadata

*Usage:*

ZenodoRecord\$setConferenceDates(dates)

*Arguments:*

dates conference dates, object of class character

**Method** setConferencePlace(): Set conference place to the record metadata

*Usage:*

ZenodoRecord\$setConferencePlace(place)

*Arguments:*

place conference place, object of class character

**Method** setConferenceUrl(): Set conference url to the record metadata

*Usage:*

ZenodoRecord\$setConferenceUrl(url)

*Arguments:*

url conference url, object of class character

**Method** setConferenceSession(): Set conference session to the record metadata

*Usage:*

ZenodoRecord\$setConferenceSession(session)

*Arguments:*

session conference session, object of class character

**Method** setConferenceSessionPart(): Set conference session part to the record metadata

*Usage:*

ZenodoRecord\$setConferenceSessionPart(part)

*Arguments:*

part conference session part, object of class character

**Method** setImprintPublisher(): Set imprint publisher to the record metadata

*Usage:*

ZenodoRecord\$setImprintPublisher(publisher)

*Arguments:*

publisher the publisher, object of class character

**Method** setImprintISBN(): Set imprint ISBN to the record metadata

*Usage:*

ZenodoRecord\$setImprintISBN(isbn)

*Arguments:*

isbn the ISBN, object of class character

**Method** setImprintPlace(): Set imprint place to the record metadata

*Usage:*

ZenodoRecord\$setImprintPlace(place)

*Arguments:*

place the place, object of class character

**Method** setPartofTitle(): Set title to which record is part of

*Usage:*

ZenodoRecord\$setPartofTitle(title)

*Arguments:*

title the title, object of class character

**Method** setPartofPages(): Set pages to which record is part of

*Usage:*

ZenodoRecord\$setPartofPages(pages)

*Arguments:*

pages the pages, object of class character

**Method** setThesisUniversity(): Set thesis university

*Usage:*

```
ZenodoRecord$setThesisUniversity(university)
```

*Arguments:*

university the university, object of class character

**Method** addThesisSupervisor(): Adds thesis supervisor

*Usage:*

```
ZenodoRecord$addThesisSupervisor(  
  firstname,  
  lastname,  
  affiliation = NULL,  
  orcid = NULL,  
  gnd = NULL  
)
```

*Arguments:*

firstname supervisor first name

lastname supervisor last name

affiliation supervisor affiliation (optional)

orcid supervisor ORCID (optional)

gnd supervisor GND (optional)

**Method** removeThesisSupervisor(): Removes a thesis supervisor by a property. The by parameter should be the name of the thesis supervisor property ('name' - in the form 'lastname, firstname', 'affiliation', 'orcid' or 'gnd').

*Usage:*

```
ZenodoRecord$removeThesisSupervisor(by, property)
```

*Arguments:*

by property used as criterion to remove the thesis supervisor

property property value used to remove the thesis supervisor

*Returns:* TRUE if removed, FALSE otherwise

**Method** removeThesisSupervisorByName(): Removes a thesis supervisor by name.

*Usage:*

```
ZenodoRecord$removeThesisSupervisorByName(name)
```

*Arguments:*

name thesis supervisor name

*Returns:* TRUE if removed, FALSE otherwise

**Method** removeThesisSupervisorByAffiliation(): Removes a thesis supervisor by affiliation

*Usage:*

ZenodoRecord\$removeThesisSupervisorByAffiliation(affiliation)

*Arguments:*

affiliation thesis supervisor affiliation

*Returns:* TRUE if removed, FALSE otherwise

**Method** removeThesisSupervisorByORCID(): Removes a thesis supervisor by ORCID

*Usage:*

ZenodoRecord\$removeThesisSupervisorByORCID(orcid)

*Arguments:*

orcid thesis supervisor ORCID

*Returns:* TRUE if removed, FALSE otherwise

**Method** removeThesisSupervisorByGND(): Removes a thesis supervisor by GND

*Usage:*

ZenodoRecord\$removeThesisSupervisorByGND(gnd)

*Arguments:*

gnd thesis supervisor GND

*Returns:* TRUE if removed, FALSE otherwise

**Method** exportAs(): Exports record to a file by format.

*Usage:*

ZenodoRecord\$exportAs(format, filename, append\_format = TRUE)

*Arguments:*

format the export format to use. Possibles values are: BibTeX, CSL, DataCite, DublinCore, DCAT, JSON, JSON-LD, GeoJSON, MARCXML

filename the target filename (without extension)

append\_format whether format name has to be appended to the filename. Default is TRUE (for backward compatibility reasons). Set it to FALSE if you want to use only the filename.

*Returns:* the written file name (with extension)

**Method** exportAsBibTeX(): Exports record as BibTeX

*Usage:*

ZenodoRecord\$exportAsBibTeX(filename)

*Arguments:*

filename the target filename (without extension)

*Returns:* the written file name (with extension)

**Method** exportAsCSL(): Exports record as CSL

*Usage:*

ZenodoRecord\$exportAsCSL(filename)



*Arguments:*

filename the target filename (without extension)

*Returns:* the written file name (with extension)

**Method** exportAsDataCite(): Exports record as DataCite

*Usage:*

ZenodoRecord\$exportAsDataCite(filename)

*Arguments:*

filename the target filename (without extension)

*Returns:* the written file name (with extension)

**Method** exportAsDublinCore(): Exports record as DublinCore

*Usage:*

ZenodoRecord\$exportAsDublinCore(filename)

*Arguments:*

filename the target filename (without extension)

*Returns:* the written file name (with extension)

**Method** exportAsDCAT(): Exports record as DCAT

*Usage:*

ZenodoRecord\$exportAsDCAT(filename)

*Arguments:*

filename the target filename (without extension)

*Returns:* the written file name (with extension)

**Method** exportAsJSON(): Exports record as JSON

*Usage:*

ZenodoRecord\$exportAsJSON(filename)

*Arguments:*

filename the target filename (without extension)

*Returns:* the written file name (with extension)

**Method** exportAsJSONLD(): Exports record as JSONLD

*Usage:*

ZenodoRecord\$exportAsJSONLD(filename)

*Arguments:*

filename the target filename (without extension)

**Method** exportAsGeoJSON(): Exports record as GeoJSON

*Usage:*

ZenodoRecord\$exportAsGeoJSON(filename)

*Arguments:*

filename the target filename (without extension)

*Returns:* the written file name (with extension)

**Method** exportAsMARCXML(): Exports record as MARCXML

*Usage:*

```
ZenodoRecord$exportAsMARCXML(filename)
```

*Arguments:*

filename the target filename (without extension)

*Returns:* the written file name (with extension)

**Method** exportAsAllFormats(): Exports record in all Zenodo record export formats. This function will create one file per Zenodo metadata formats.

*Usage:*

```
ZenodoRecord$exportAsAllFormats(filename)
```

*Arguments:*

filename the target filename (without extension)

**Method** listFiles(): list files attached to the record

*Usage:*

```
ZenodoRecord$listFiles(pretty = TRUE)
```

*Arguments:*

pretty whether a pretty output (data.frame) should be returned (default TRUE), otherwise the raw list of files is returned.

*Returns:* the files, as data.frame or list

**Method** downloadFiles(): Downloads files attached to the record

*Usage:*

```
ZenodoRecord$downloadFiles(
  path = ".",
  files = list(),
  parallel = FALSE,
  parallel_handler = NULL,
  cl = NULL,
  quiet = FALSE,
  ...
)
```

*Arguments:*

path target download path (by default it will be the current working directory)

files (list of) file(s) to download. If not specified, by default all files will be downloaded.

parallel whether download has to be done in parallel using the chosen parallel\_handler.  
Default is FALSE

`parallel_handler` The parallel handler to use eg. `mclapply`. To use a different parallel handler (such as eg `parLapply` or `parSapply`), specify its function in `parallel_handler` argument. For cluster-based parallel download, this is the way to proceed. In that case, the cluster should be created earlier by the user with `makeCluster` and passed as `cl` argument. After downloading all files, the cluster will be stopped automatically.

`cl` an optional cluster for cluster-based parallel handlers

`quiet` (default is `FALSE`) can be set to suppress informative messages (not warnings).

... arguments inherited from `parallel::mclapply` or the custom `parallel_handler` can be added (eg. `mc.cores` for `mclapply`)

**Method** `print()`: Prints a [ZenodoRecord](#)

*Usage:*

```
ZenodoRecord$print(..., format = "internal", depth = 1)
```

*Arguments:*

... any other parameter. Not used

`format` format to use for printing. By default, `internal` uses an **zen4R** internal printing method. Other methods available are those supported by Zenodo for record export, and can be used only if the record has already been published (with a DOI). Attempts to print using a Zenodo export format for a record will raise a warning message and revert to "internal" format

`depth` an internal depth parameter for indentation of print statements, in case of listing or recursive use of `print`

**Method** `toDCEntry()`: Maps to an [atom4R DCEntry](#). Note: applies only to published records.

*Usage:*

```
ZenodoRecord$toDCEntry()
```

*Returns:* an object of class `DCEntry`

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

*Usage:*

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

*Arguments:*

`deep` Whether to make a deep clone.

## Note

See examples in [download\\_zenodo](#) utility function.

## Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

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ZenodoRequest	<i>ZenodoRequest</i>
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**Description**

ZenodoRequest

ZenodoRequest

**Format**

[R6Class](#) object.

**Value**

Object of [R6Class](#) for modelling a generic Zenodo request

**Super class**

[zen4R](#) : [zen4RLogger](#) -> ZenodoRequest

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

- [ZenodoRequest\\$new\(\)](#)
- [ZenodoRequest\\$execute\(\)](#)
- [ZenodoRequest\\$getRequest\(\)](#)
- [ZenodoRequest\\$getRequestHeaders\(\)](#)
- [ZenodoRequest\\$getStatus\(\)](#)
- [ZenodoRequest\\$getResponse\(\)](#)
- [ZenodoRequest\\$getException\(\)](#)
- [ZenodoRequest\\$getResult\(\)](#)
- [ZenodoRequest\\$setResult\(\)](#)
- [ZenodoRequest\\$clone\(\)](#)

**Method** `new()`: Initializes a ZenodoRequest

*Usage:*

```
ZenodoRequest$new(  
  url,  
  type,  
  request,  
  data = NULL,  
  file = NULL,  
  token,  
  logger = NULL,  
  ...  
)
```

*Arguments:*

*url* request URL  
*type* Type of request: 'GET', 'POST', 'PUT', 'DELETE'  
*request* the method request  
*data* payload (optional)  
*file* to be uploaded (optional)  
*token* user token  
*logger* the logger type  
... any other arg

**Method** `execute()`: Executes the request

*Usage:*

`ZenodoRequest$execute()`

**Method** `getRequest()`: Get request

*Usage:*

`ZenodoRequest$getRequest()`

**Method** `getRequestHeaders()`: Get request headers

*Usage:*

`ZenodoRequest$getRequestHeaders()`

**Method** `getStatus()`: Get request status

*Usage:*

`ZenodoRequest$getStatus()`

**Method** `getResponse()`: Get request response

*Usage:*

`ZenodoRequest$getResponse()`

**Method** `getException()`: Get request exception

*Usage:*

`ZenodoRequest$getException()`

**Method** `getResult()`: Get request result

*Usage:*

`ZenodoRequest$getResult()`

**Method** `setResult()`: Set request result

*Usage:*

`ZenodoRequest$setResult(result)`

*Arguments:*

*result* result to be set

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

*Usage:*

`ZenodoRequest$clone(deep = FALSE)`

*Arguments:*

*deep* Whether to make a deep clone.

**Note**

Abstract class used internally by **zen4R**

**Author(s)**

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

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zenodo\_pat

*zenodo\_pat*

---

**Description**

Get Zenodo personal access token, looking in env var 'ZENODO\_PAT'

**Usage**

```
zenodo_pat(quiet = TRUE)
```

**Arguments**

quiet            Hide log message, default is TRUE

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