Package 'rfigshare'

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fs_add_authors

Add author to an article

Description

Add author to an article

Usage

```
fs_add_authors(
   article_id,
   authors,
   session = fs_get_auth(),
   create_missing = TRUE,
   debug = FALSE
)
```

Arguments

article_id id number of an article on figshare
authors a list or character string of authors or author id numbers (or mixed).

session (optional) the authentication credentials from fs_auth. If not provided, will attempt to load from cache as long as figshare_auth has been run.

create_missing (logical) Attempt to create authors not already registered on FigShare?

debug return the httr result visibly?

fs_add_categories 3

Value

adds the requested authors to the given article

Author(s)

Carl Boettiger <cboettig@gmail.com>

Examples

```
## Not run:
    fs_add_authors("138", list("Scott Chamberlain", "Karthik Ram"))
    fs_add_authors("138", c("Scott Chamberlain", "Karthik Ram"))
    fs_add_authors("138", list("Scott Chamberlain", "97306"))
    fs_add_authors("138", list("Scott Chamberlain", 97306))
    fs_add_authors(138, 97306)

## End(Not run)
```

fs_add_categories

Add a category to article

Description

Add a category to article

Usage

```
fs_add_categories(
  article_id,
  category_id,
  session = fs_get_auth(),
  debug = FALSE
)
```

Arguments

article_id the id number of the article

category_id is a vector of integers corresponding to categories or a vector of category names

session (optional) the authentication credentials from fs_auth. If not provided, will attempt to load from cache as long as figshare_auth has been run.

debug return PUT results visibly?

Value

```
output of PUT request (invisibly)
```

fs_add_links

Author(s)

Edmund Hart <edmund.m.hart@gmail.com>

References

```
https://docs.figshare.com
```

See Also

fs_auth

Examples

```
## Not run:
fs_add_categories(138, "Ecology")
## End(Not run)
```

fs_add_links

Add link to article

Description

Adds url links to the metadata of an article

Usage

```
fs_add_links(article_id, link, session = fs_get_auth(), debug = FALSE)
```

Arguments

article_id the id number of the article

link the url you wish to add (can be list of urls)

session (optional) the authentication credentials from fs_auth. If not provided, will

attempt to load from cache as long as authentication has been run.

debug logical, should function return details of PUT request?

Value

```
output of PUT request (invisibly)
```

Author(s)

Carl Boettiger <cboettig@gmail.com>

References

```
https://docs.figshare.com
```

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See Also

```
fs_auth
```

Examples

```
## Not run:
fs_add_links(138, list("http://carlboettiger.info", "http://ropensci.org"))
## End(Not run)
```

fs_auth

Figshare authentication via OAuth1.0 using httr

Description

Figshare authentication via OAuth1.0 using httr

Usage

```
fs_auth(
  cKey = getOption("FigshareKey", NULL),
  cSecret = getOption("FigsharePrivateKey", NULL),
  token = getOption("FigshareToken", NULL),
  token_secret = getOption("FigsharePrivateToken", NULL))
```

Arguments

cKey optional argument for the consumer key. See details.
cSecret optional argument for the consumer secret key. See de

cSecret optional argument for the consumer secret key. See details. token optional argument for the user-specific token. See details.

token_secret Optional argument to provide a secret token assigned to the user, rather than let

fs_auth() automatically handle authentication. See details.

Details

Explicit calls to fs_auth() are usually not needed, as the function is called automatically by all other functions that need authentication. As of version 0.3, no arguments are needed as authentication is done online, and fs_auth() will not attempt to load keys stored in options.

By default, the function will use the application's consumer key and consumer secret key, rather than expecting the user to create their own application. The user-specific tokens will then be generated and locally cached for use between sessions, if indicated by the interactive options. For details, see httr oauth1.0 token documentation.

If for some reason a user would rather provide there token and secret token as before this is still supported using the same arguments. Users wanting to have their own app can provide cKey and cSecret arguments too, but this is provided primarily for backwards compatibility with older versions. It is expected that most users will leave the keys as NULL.

fs_author_search

Value

OAuth credential (invisibly). The credential is also written to the enivronment "FigshareAuth-Cache", which is created when the package is loaded. All functions needing authentication can then access the credential without it being explicitly passed in the function call. If authentication fails, returns the failing GET response for debugging.

Author(s)

Carl Boettiger <cboettig@gmail.com>

References

```
https://docs.figshare.com
```

Examples

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

fs_author_search

Search for an author

Description

Function to search for authors

Usage

```
fs_author_search(author, session = fs_get_auth(), debug = FALSE)
```

Arguments

author a string to search for (name, can include spaces)

session (optional) the authentication credentials from fs_auth. If not provided, will

attempt to load from cache as long as figshare_auth has been run.

debug toggle debugging mode

Value

```
output of PUT request (invisibly)
```

Author(s)

Carl Boettiger <cboettig@gmail.com>

fs_browse 7

References

```
https://docs.figshare.com
```

See Also

```
fs_auth
```

Examples

```
## Not run:
fs_author_search("Boettiger")
## End(Not run)
```

fs_browse

Browse articles

Description

Browse can be set to all public articles, the users own articles, Browse can filter on matching timestamp, author, title, description, tag, category, and date range.

Usage

```
fs_browse(
    mine = TRUE,
    public_only = FALSE,
    private_only = FALSE,
    drafts_only = FALSE,
    session = fs_get_auth(),
    base = "http://api.figshare.com/v1",
    query = NA,
    debug = FALSE
)
```

Arguments

mine	Logical, show only my (authenticated user's) articles. Defaults to TRUE.
public_only	(for use with mine=TRUE only) browse only my public articles. default is FALSE
private_only	(for use with mine=TRUE only) browse only my private articles. default is FALSE
drafts_only	(for use with mine=TRUE only) browse only my draft articles. default is FALSE
session	(optional) the authentication credentials from fs_auth. If not provided, will attempt to load from cache as long as figshare_auth has been run.
base	the API access url
query	a search query term (equivalent to calling fs_search)
debug	enable debugging mode

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Value

```
output of PUT request (invisibly)
```

Author(s)

```
Carl Boettiger <cboettig@gmail.com>
```

References

```
https://docs.figshare.com
```

See Also

```
fs_auth
```

Examples

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

fs_category_list

List all categories

Description

List all categories

Usage

```
fs_category_list(debug = FALSE)
```

Arguments

debug

enable debugging

Value

a table of all the categories

References

```
https://docs.figshare.com
```

fs_cat_to_id 9

Examples

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

fs_cat_to_id

Helper function that matches string categories to id's

Description

Helper function that matches string categories to id's

Usage

```
fs_cat_to_id(category_id)
```

Arguments

category_id Must be a valid category string, regardless of case

Value

a vector of integers corresponding to valid figshare categories

Author(s)

Edmund Hart <edmund.m.hart@gmail.com>

References

```
https://docs.figshare.com
```

fs_create

Create a FigShare article (draft)

Description

Articles must be created with fs_create with essential metadata. Then you can add files with fs_upload, add categories, tags or authors with fs_add_categories or fs_add_tags fs_add_authors. Authors not registered with a FigShare id can be created with fs_create_author. You can edit the original metadata with fs_update. Finally, release the article as either private or public with fs_make_private or fs_make_public. Before creating the article, you must authenticate using fs_auth.

fs_create_author

Usage

```
fs_create(
  title,
  description,
  type = c("dataset", "figure", "media", "poster", "paper", "fileset"),
  session = fs_get_auth(),
  debug = FALSE
)
```

Arguments

title for the article description of the article

type one of: dataset, figure, media, poster, paper or fileset. (Only filesets can have

multiple uploaded files attached).

session the authentication credentials from fs_auth

debug print full post call return

Value

article id

References

```
https://docs.figshare.com
```

See Also

```
fs_auth, fs_upload
```

Examples

```
## Not run:
fs_create("My Title", "A description of the object", "dataset")
## End(Not run)
```

fs_create_author

Creates a figshare author

Description

Creates a figshare author

```
fs_create_author(full_name, session = fs_get_auth(), debug = FALSE)
```

fs_delete 11

Arguments

full_name full name of the author to create

session (optional) the authentication credentials from fs_auth. If not provided, will

attempt to load from cache as long as figshare_auth has been run.

debug return PUT request visibly?

Value

author ID numbers

Author(s)

Carl Boettiger <cboettig@gmail.com>

References

```
https://docs.figshare.com
```

See Also

fs_auth

Examples

```
## Not run:
fs_create_author("Benjamin Franklin")
## End(Not run)
```

fs_delete

Delete article (private or drafts only) or attached file

Description

Delete article (private or drafts only) or attached file

Usage

```
fs_delete(article_id, file_id = NULL, session = fs_get_auth(), debug = FALSE)
```

Arguments

article_id	the id number of the article
file_id	the id number of the file, if removing an attached file from a fileset. file_id defaults to NULL, removing the entire draft or private article.
session	(optional) the authentication credentials from fs_auth. If not provided, will attempt to load from cache as long as figshare_auth has been run.

debug display return value of request?

fs_details

Value

```
output of DELETE request (invisibly)
```

Author(s)

Carl Boettiger <cboettig@gmail.com>

References

```
https://docs.figshare.com
```

See Also

fs_auth

Examples

```
## Not run:
fs_delete(123)

## Delete all attachments in the second-most-recent entry in my library
my_lib <- fs_browse(mine=TRUE)
article_id <- my_lib[[2]]$article_id
file_ids <- sapply(my_lib[[2]]$files, `[[`, "id")
sapply(file_ids, function(id) fs_delete(article_id, id))

## End(Not run)</pre>
```

fs_details

Get details for an article

Description

Get details for an article

```
fs_details(
   article_id,
   mine = is_mine(article_id),
   session = fs_get_auth(),
   show_versions = FALSE,
   version = NULL,
   debug = FALSE
)
```

fs_download 13

Arguments

article_id number

mine logical (default FALSE). Set to true to see article details for your own non-public

articles

session the authentication credentials from fs_auth show_versions logical, show what versions are available

version show a given version number debug logical, enable debugging mode?

Author(s)

Carl Boettiger <cboettig@gmail.com>

References

```
https://docs.figshare.com
```

See Also

fs_auth

Examples

```
## Not run:
fs_details(138)
## End(Not run)
```

fs_download

Get details for an article

Description

Get details for an article

```
fs_download(
   article_id,
   urls_only = TRUE,
   mine = is_mine(article_id),
   session = fs_get_auth(),
   show_versions = FALSE,
   version = NULL,
   ...
)
```

fs_embed

Arguments

article_id number

urls_only logical (default TRUE) to only return the URLs to the downloadable objects but

do not call download.file. If FALSE, will download files

mine logical (default FALSE). Set to true to see article details for your own non-public

articles

session the authentication credentials from fs_auth show_versions logical, show what versions are available

version show a given version number

... additional arguments to download.file

Author(s)

Carl Boettiger <cboettig@gmail.com>

References

https://docs.figshare.com/https://github.com/ropensci-archive/rfigshare

See Also

```
fs_auth download.file
```

Examples

```
## Not run:
url <- fs_download(90818)
data <- read.csv(url)
articles <- fs_search("SciFund")
ids <- fs_ids(articles)
fs_download(ids, urls_only=FALSE)
## End(Not run)</pre>
```

fs_embed

Upload a figure to figshare and return the url

Description

Upload a figure to figshare and return the url

```
fs_embed(file)
```

fs_ids

Arguments

file

path to an image file

Details

```
use with opts_knit$set(upload.fn = fs_embed)
```

Value

a url to the image file

fs_ids

Get a list of article id numbers from a search return

Description

Get a list of article id numbers from a search return

Usage

```
fs_ids(object)
```

Arguments

object

the output of a search

Value

a list of article id numbers

Author(s)

Carl Boettiger <cboettig@gmail.com>

References

```
https://docs.figshare.com
```

Examples

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

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fs_image_url

get image url

Description

get image url

Usage

```
fs_image_url(id, debug = FALSE)
```

Arguments

id a (public) figshare figure id number debug logical, enable debugging mode?

Details

this is currently an unstable hack of html parsing

Value

a url to the image file

fs_make_private

Make an article private (draft only?)

Description

Make an article private (draft only?)

Usage

```
fs_make_private(article_id, session = fs_get_auth())
```

Arguments

article_id the id number of the article

session (optional) the authentication credentials from fs_auth. If not provided, will

attempt to load from cache as long as fs_auth has been run.

Value

output of PUT request (invisibly)

fs_make_public 17

Author(s)

```
Carl Boettiger <cboettig@gmail.com>
```

References

```
https://docs.figshare.com
```

See Also

```
fs_auth
```

Examples

```
## Not run:
fs_make_private(123)
## End(Not run)
```

fs_make_public

Make an article public (for private or draft articles)

Description

Make an article public (for private or draft articles)

Usage

```
fs_make_public(article_id, session = fs_get_auth())
```

Arguments

article_id the id number of the article

session (optional) the authentication credentials from fs_auth.

Details

This function will make a draft or private article public, assigning it a DOI and making it permanently available through Figshare. If you use fs_upload to add new files to an existing public deposit, you must then use fs_make_public for those changes to be made in the public version of the repository.

Value

```
output of PUT request (invisibly)
```

Note

NOTE: Public articles are assigned DOIs and cannot be deleted or made private once declared public! Public articles do not count against your quota space.

fs_new_article

Author(s)

Carl Boettiger <cboettig@gmail.com>

References

```
https://docs.figshare.com
```

See Also

fs_auth

Examples

```
## Not run:
fs_make_public(123)
## End(Not run)
```

fs_new_article

Create a FigShare article.

Description

fs_new_article is a wrapper around many other rfigshare commands to provide convenient posting.

Usage

```
fs_new_article(
   title,
   description,
   type = c("dataset", "figure", "media", "poster", "paper", "fileset"),
   authors = NA,
   categories = NA,
   tags = NA,
   links = NA,
   files = NA,
   visibility = c("draft", "private", "public"),
   session = fs_get_auth()
)
```

Arguments

```
title for the article, see fs_create for details.
description of the article, see fs_create for details.
```

type one of: dataset, figure, media, poster, or paper, see fs_create for details.

Orded list of authors for the article, see fs_add_authors for details

fs_search 19

categories list of categories or category id numbers, see fs_add_categories for details.

list of tags, see fs_add_tags for details.

list of links to add, see fs_add_links for details

path to the files to add, see fs_upload for details

visibility one of "draft", "private" or "public". A draft document can still be edited and modified. A public document is visible to everyone and cannot be deleted (though additional authors to the work can still "claim" their authorship).

session (optional) credentials, see link{fs_auth}

Value

article id

References

```
https://docs.figshare.com
```

See Also

```
fs_auth, fs_add_categories, fs_add_authors, fs_add_tags, fs_add_links
```

Examples

fs_search Advanced Search.

Description

Search function that will filter on matching timestamp, author, title, description, tag, category, and date range. Query searches against matches in any metadata field. Full-text searches coming soon.

20 fs_search

Usage

```
fs_search(
  query,
  author = NA,
  title = NA,
 description = NA,
  tag = NA,
  category = NA,
  from_date = NA,
  to_date = NA,
 mine = FALSE,
 public_only = FALSE,
 private_only = FALSE,
 drafts_only = FALSE,
  session = fs_get_auth(),
 base = "http://api.figshare.com/v1",
 debug = FALSE
)
```

the search query

the API access url

logical, enable debugging mode

Show only results by this author

Arguments

query

author

	•
title	Show only results matching or partially matching this title
description	Show only results matching or partially matching this description
tag	Show only results matching this tag
category	Show only results matching this category
from_date	Start time window for search. Date format is YYYY-MM-DD
to_date	Ending time window for search. Date format is YYYY-MM-DD
mine	Browse only articles owned by user. default is FALSE. Not functional. Use fs_browse instead.
public_only	(for use with mine=TRUE only) browse only my public articles. default is FALSE
private_only	(for use with mine=TRUE only) browse only my private articles. default is FALSE
drafts_only	(for use with mine=TRUE only) browse only my draft articles. default is FALSE
session	(optional) the authentication credentials from fs_auth. If not provided, will

attempt to load from cache as long as figshare_auth has been run.

Value

base debug

```
output of PUT request (invisibly)
```

fs_update 21

Author(s)

```
Carl Boettiger <cboettig@gmail.com>
```

References

```
https://docs.figshare.com
```

See Also

```
\codefs_auth fs_browse
```

Examples

fs_update

Update article title, description, or type

Description

Updates the article title, description or type. If any is not specified, it will remain unchanged.

Usage

```
fs_update(
   article_id,
   title = NA,
   description = NA,
   type = NA,
   mine = TRUE,
   session = fs_get_auth(),
   debug = FALSE
)
```

Arguments

```
article_id the id number of the article
title for the article (to replace original title)
description of the article (replaces original designation)
```

22 fs_upload

type one of: dataset, figure, media, poster, or paper (replaces original designation)

mine Set to TRUE if it refers to an item on your own account session (optional) the authentication credentials from fs_auth.

debug return httr PUT request visibly?

Details

Updates the title, description, and type of an article.

Value

```
output of PUT request (invisibly)
```

Author(s)

Carl Boettiger <cboettig@gmail.com>

References

```
https://docs.figshare.com
```

See Also

```
fs_auth, fs_add_tags
```

Examples

```
## Not run:
fs_update(138, title = "New title")
## End(Not run)
```

fs_upload

Upload file to an article

Description

Upload file to an article

Usage

```
fs_upload(article_id, file, session = fs_get_auth())
```

Arguments

article_id an article id number or a character string (or list) of numbers

file path to file to upload, or character string (or list) of files (paths)

session the authentication credentials from fs_auth (optional)

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Details

Articles may be draft, private or public but all uploads are saved as draft changes - the canonical public version of the deposit is not updated. To update the public version of the repository, use fs_make_public. Only articles of type "fileset" can have multiple files uploaded.

If only a single id number is given but a character string of files is given, then be sure that the id corresponds to an object of type "fileset". If article_id list has more than one id, then there must be a corresponding file path for each id.

Author(s)

```
Carl Boettiger < cboettig@gmail.com>
```

References

```
https://docs.figshare.com
```

See Also

```
fs_auth
```

Examples

```
## Not run:
id <- fs_create("Title", "description", "figure")
fs_upload(id, "file.png")
## End(Not run)</pre>
```

plot_to_filename

Convienence function to save a ggplot2 plot, and return its filename.

Description

Convienence function to save a ggplot2 plot, and return its filename.

Usage

```
plot_to_filename(plotobj, filename, path = ".")
```

Arguments

plotobj ggplot2 plot object (should add support for base plots too)

filename Filename, don't include the file type extension.

path Path where you want to save the file.

Value

A file name, to use in fs_upload

24 summary_fs_details

See Also

```
fs_upload
```

Examples

```
## Not run:
# include in your fs_upload call
library(ggplot2)
p <- qplot(mpg, wt, data=mtcars)
plott <- fs_create(title="my title", description="some description", type="figure")
fs_add_categories(plott, "Ecology")
fs_upload(plott, plot_to_filename(p, "myfilename", "~"))
## End(Not run)</pre>
```

summary_fs_details

Collect metadata from details call

Description

Collect metadata from details call

Usage

```
summary_fs_details(fs_details_obj)
```

Arguments

```
fs_details_obj object
```

Author(s)

Edmund Hart <edmund.m.hart@gmail.com>

References

```
https://docs.figshare.com
```

Examples

```
## Not run:
fs_auth()
my_article <- fs_details("138")
summary_fs_details(my_article)
## End(Not run)</pre>
```

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