Package ‘gistr’

June 28, 2018

Title  Work with 'GitHub' 'Gists'

Description Work with 'GitHub' 'gists' from 'R' (e.g.,
<http://en.wikipedia.org/wiki/GitHub#Gist>,
is simply one or more files with code/text/images/etc. This package allows
the user to create new 'gists', update 'gists' with new files, rename files,
delete files, get and delete 'gists', star and 'un-star' 'gists', fork 'gists',
open a 'gist' in your default browser, get embed code for a 'gist', list
'gist' 'commits', and get rate limit information when 'authenticated'. Some
requests require authentication and some do not. 'Gists' website:

Version 0.4.2

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URL https://github.com/ropensci/gistr

BugReports https://github.com/ropensci/gistr/issues

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Author Scott Chamberlain [aut, cre] (<https://orcid.org/0000-0003-1444-9135>),
Ramnath Vaidyanathan [aut],
Karthik Ram [aut]

Maintainer Scott Chamberlain <myrmecocystus@gmail.com>

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Description

R client for GitHub gists.

Details

gistr allows you to perform actions on gists, including listing, forking, starring, creating, deleting, updating, etc.

There are two ways to authorise gistr to work with your GitHub account:

- Generate a personal access token (PAT) at [https://help.github.com/articles/creating-an-access-token-for-cli](https://help.github.com/articles/creating-an-access-token-for-cli) and record it in the GITHUB_PAT envvar.
- Interactively login into your GitHub account and authorise with OAuth.

Using the GITHUB_PAT is recommended.
**Description**

Add files to a gist object

**Usage**

```r
cold_files(gist, ...)
cold_update_files(gist, ...)
delete_files(gist, ...)
rename_files(gist, ...)
```

**Arguments**

- **gist**: A gist object or something coercable to a gist
- **...**: Curl options passed on to `GET`

**Examples**

```r
## Not run:
add_files("~/stuff.Rmd")
# update_files()
# delete_files()
# rename_files()
```

## End(Not run)
commit on GitHub

Usage

```
commits(gist, page = NULL, per_page = 30, ...)
```

Arguments

- **gist**: A gist object or something co recru table to a gist.
- **page**: (integer) Page number to return.
- **per_page**: (integer) Number of items to return per page. Default 30. Max 100.
- **...**: Further named args to GET

Examples

```r
# Not run:
gists()[[1]] %>% commits()
gist(id = '1f399774e9ec91553a6f') %>% commits(per_page = 5)

# pass in a url
gist("https://gist.github.com/expersso/4ac33b9c0751fddc7f8") %>% commits

# End(Not run)
```
create_gists

create_gists

Create gists

Description

Creating gists in gistr can be done with any of three functions:

- **gist_create** - Create gists from files or code blocks, using the GitHub HTTP API. Because this function uses the GitHub HTTP API, it does not work for binary files. However, you can get around this for images by using knitr’s hook to upload images to eg., imgur. In addition, it’s difficult to include artifacts from the knit-ing process.

- **gist_create_git** - Create gists from files or code blocks, using git. Because this function uses git, you have more flexibility than with the above function: you can include any binary files, and can easily upload all artifacts.

- **gist_create_obj** - Create gists from R objects: data.frame, list, character string, matrix, or numeric. Uses the GitHub HTTP API.

It may seem a bit odd to have three separate functions for creating gists. **gist_create** was created first, and was out for a bit, so when we had the idea to create gists via git (**gist_create_git**) and from R objects (**gist_create_obj**), it made sense to have a different API for creating gists via the HTTP API, git, and from R objects. We could have thrown everything into **gist_create**, but it would have been a massive function, with far too many parameters.

delete

Delete a gist

Description

Delete a gist

Usage

download(gist, ...)

Arguments

gist A gist object or something coercable to a gist
...

Curl options passed on to GET

Examples

```r
# Not run:
gists("minepublic")[[29]] %>% delete()

# End(Not run)
```
**embed**  
*Get embed script for a gist*

### Description
Get embed script for a gist

### Usage
```r
embed(gist)
```

### Arguments
- **gist**  
  A gist object or something that can be coerced to a gist object.

### Examples
```r
## Not run:
gists()[[1]] %>% embed()

# pass in a url
gist("https://gist.github.com/expersso/4ac33b9c00751fddc7f8") %>% embed

## End(Not run)
```

---

**fork**  
*Fork a gist*

### Description
Fork a gist

### Usage
```r
fork(gist, ...)
```

### Arguments
- **gist**  
  A gist object or something coercable to a gist
- **...**  
  Further named args to GET

### Value
A gist class object
Examples

```r
## Not run:
# fork a gist
> gists()[[1]] %>% fork()

# browse to newly forked gist
> gist(id='0831f3fbd83ac4d46451') %>% fork() %>% browse()

# extract the last one
> gist(id='1642874') %>%
> forks() %>%
> .[length(.)]

## End(Not run)
```

---

**forks**  

*List forks on a gist*

**Description**

List forks on a gist

**Usage**

```r
forks(gist, page = NULL, per_page = 30, ...)
```

**Arguments**

- `gist`  
  A gist object or something coerceable to a gist
- `page`  
  (integer) Page number to return.
- `per_page`  
  (integer) Number of items to return per page. Default 30. Max 100.
- `...`  
  Further named args to `GET`

**Value**

A list of gist class objects

**Examples**

```r
## Not run:
> gist(id='1642874') %>% forks(per_page=2)
> gist(id = "8172796") %>% forks()

# pass in a url
> gist("https://gist.github.com/expersso/4ac33b9c08751fddc7f8") %>% forks

## End(Not run)
```
gist

Get a gist

Description
Get a gist

Usage

gist(id, revision = NULL, ...)

as.gist(x)

Arguments

id (character) A gist id, or a gist URL
revision (character) A sha. optional
... Curl options passed on to GET
x Object to coerce. Can be an integer (gist id), string (gist id), a gist, or an list that can be coerced to a gist.

Details
If a file is larger than ~1 MB, the content of the file given back is truncated, so you won’t get the entire contents. In the return S3 object that’s printed, we tell you at the bottom whether each file is truncated or not. If a file is, simply get the raw_url URL for the file (see example below), then retrieve from that. If the file is very big, you may need to clone the file using git, etc.

Examples

## Not run:
gist('f1403260eb92f5dfa7e1')
as.gist('f1403260eb92f5dfa7e1')
as.gist(10)
as.gist(gist('f1403260eb92f5dfa7e1'))

# get a specific revision of a gist
id <- 'c1e2cb547df9f22bd314da50fe9c7b503'
gist(id, 'a5bc5c143beb697f23b2c320ff5a8dafcf960b0f3')
gist(id, 'b70d94a8222a4326daff46fc85bc69d0179bd1da2')
gist(id, '648bb44ab9ae59d57b4ea5de7d85e24103717e8b')
gist(id, '0259b13c7653dc95e20f133bcf71811888cbe6')

# from a url, or partial url
x <- "https://gist.github.com/experssso/4ac33b9c00751fddc7f8"
x <- "gist.github.com/experssso/4ac33b9c00751fddc7f8"
x <- "gist.github.com/4ac33b9c00751fddc7f8"
x <- "expersso/4ac33b9c00751fddc7f8"
as.gist(x)

ids <- sapply(gists(), [[, "id")
gist(ids[1])
gist(ids[2])
gist(ids[3])
gist(ids[4])

gist(ids[1]) %>% browse()

## If a gist file is > a certain size it is truncated
## in this case, we let you know in the return object that it is truncated
## e.g.
(bigfile <- gist(id = "b74b878fd7d9176a4c52"))
## then get the raw_url, and retrieve the file
url <- bigfile$files$'plossmall.json'$raw_url
  # http::GET(url)

## End(Not run)

---

**gists**

*List gists*

---

**Description**

List public gists, your own public gists, all your gists, by gist id, or query by date.

**Usage**

```r
gists(what = "public", since = NULL, page = NULL, per_page = 30, ...)
```

**Arguments**

- **what** (character) What gists to return. One of public, minepublic, mineall, or starred.
  If an id is given for a gist, this parameter is ignored.
- **since** (character) A timestamp in ISO 8601 format: YYYY-MM-DDTHH:MM:SSZ.
  Only gists updated at or after this time are returned.
- **page** (integer) Page number to return.
- **per_page** (integer) Number of items to return per page. Default 30. Max 100.
  ... Curl options passed on to GET

**Details**

When `what = "mineall", we use getOption("github.username") internally to get your GitHub user name. Make sure to set your GitHub user name as an R option like `options(github.username = "foobar")` in your `.Rprofile` file. If we can’t find your user name, we’ll stop with an error.
Examples

```r
# Not run:
# Public gists
gists()
gists(per_page=2)
gists(page=3)
# Public gists created since X time
gists(since='2014-05-26T00:00:00Z')
# Your public gists
gists('minepublic')
gists('minepublic', per_page=2)
# Your private and public gists
gists('mineall')
# Your starred gists
gists('starred')
# pass in curl options
gists(per_page=1, config=verbose())
gists(per_page=1, config=timeout(seconds = 0.5))
```

## gist_auth

**Authorize with GitHub.**

### Description

This function is run automatically to allow gistr to access your GitHub account.

### Usage

```r
gist_auth(app = gistr_app, reauth = FALSE)
```

### Arguments

- **app**
  
  An oauth_app for GitHub. The default uses an application gistr_oauth created by Scott Chamberlain.

- **reauth**

  (logical) Force re-authorization?

### Details

There are two ways to authorise gistr to work with your GitHub account:

- Generate a personal access token at https://help.github.com/articles/creating-an-access-token-for-command-line-use and record in the GITHUB_PAT envvar.
- Interactively login into your GitHub account and authorise with OAuth.

Using GITHUB_PAT is recommended.
Examples

```r
## Not run:
gist_auth()

## End(Not run)
```

gist_create Create a gist

Description

Create a gist

Usage

```r
gist_create(files = NULL, description = "", public = TRUE,
            browse = TRUE, code = NULL, filename = "code.R", knit = FALSE,
            knitopts = list(), renderopts = list(), include_source = FALSE,
            imgur_inject = FALSE, rmarkdown = FALSE, ...)
```

Arguments

- `files` Files to upload. this or code param must be passed
- `description` (character) Brief description of gist (optional)
- `public` (logical) Whether gist is public (default: TRUE)
- `browse` (logical) To open newly create gist in default browser (default: TRUE)
- `code` Pass in any set of code. This can be a single R object, or many lines of code wrapped in quotes, then curly brackets (see examples below). this or files param must be passed
- `filename` Name of the file to create, only used if code parameter is used. Default to code.R
- `knit` (logical) Knit code before posting as a gist? If the file has a .Rmd or .Rnw extension, we run the file with `link[knitr]{knit}`, and if it has a .R extension, then we use `render`
- `knitopts, renderopts` (list) List of variables passed on to `link[knitr]{knit}`, or `render`
- `include_source` (logical) Only applies if `knit=TRUE`. Include source file in the gist in addition to the knitted output.
- `imgur_inject` (logical) Inject `imgur_upload` into your .Rmd file to upload files to `http://imgur.com/`. This will be ignored if the file is a sweave/latex file because the rendered pdf can’t be uploaded anyway. Default: FALSE
- `rmarkdown` (logical) If TRUE, use `render` instead of `knit` to render the document.
- `...` Further args passed on to `link[httr]{POST}`
See Also

* gist_create_obj, gist_create_git *

Examples

```r
## Not run:
file <- tempfile()
cat("hello world", file = file)
gist_create(files=file, description='a new cool gist')

file1 <- tempfile()
file2 <- tempfile()
cat("foo bar", file = file1)
cat("foo bar", file = file2)
gist_create(files=c(file1, file2), description='spocc demo files')

# include any code by passing to the code parameter
gist_create(code='
x <- letters
numbers <- runif(10)
numbers
')

# Knit an .Rmd file before posting as a gist
file <- system.file("examples", "stuff.Rmd", package = "gistr")
gist_create(file, description='a new cool gist', knit=TRUE)

file <- system.file("examples", "plots.Rmd", package = "gistr")
gist_create(file, description='some plots', knit=TRUE)

# an .Rnw file
file <- system.file("examples", "rnw_example.Rnw", package = "gistr")
gist_create(file)
gist_create(file, knit=TRUE)

# Knit code input before posting as a gist
gist_create(code='
```(r)
x <- letters
(numbers <- runif(8))
```
'), knit=TRUE)

library('httr')
url <- "https://github.com/ropensci/geojsonio/blob/master/inst/examples/zillow_or.geojson"
res <- httr::GET(url)
json <- httr::content(res, as = "text")
gist_create(code = json, filename = "zillow_or.geojson")

# Knit and include source file, so both files are in the gist
file <- system.file("examples", "stuff.Rmd", package = "gistr")
gist_create(file, knit=TRUE, include_source=TRUE)
```
gist_create_git

Create a gist via git instead of the GitHub Gists HTTP API

**Description**

Create a gist via git instead of the GitHub Gists HTTP API
Usage

gist_create_git(files = NULL, description = "", public = TRUE,
browse = TRUE, knit = FALSE, code = NULL, filename = "code.R",
knitopts = list(), renderopts = list(), include_source = FALSE,
artifacts = FALSE, imgur_inject = FALSE, git_method = "ssh",
sleep = 1, ...)

Arguments

files Files to upload. this or code param must be passed

description (character) Brief description of gist (optional)

public (logical) Whether gist is public (default: TRUE)

browse (logical) To open newly create gist in default browser (default: TRUE)

knit (logical) Knit code before posting as a gist? If the file has a .Rmd or .Rnw
extension, we run the file with link[knitr]{knit}, and if it has a .R extension,
then we use render

code Pass in any set of code. This can be a single R object, or many lines of code
wrapped in quotes, then curly brackets (see examples below). this or files
param must be passed

filename Name of the file to create, only used if code parameter is used. Default to
code.R

knitopts, renderopts (list) List of variables passed on to link[knitr]{knit}, or render

include_source (logical) Only applies if knit=TRUE. Include source file in the gist in addition to
the knitted output.

artifacts (logical/character) Include artifacts or not. If TRUE, includes all artifacts. Or
you can pass in a file extension to only upload artifacts of certain file extensions.
Default: FALSE

imgur_inject (logical) Inject imgur_upload into your .Rmd file to upload files to http://
imgur.com/. This will be ignored if the file is a sweave/latex file because the
rendered pdf can’t be uploaded anyway. Default: FALSE

git_method (character) One of ssh (default) or https. If a remote already exists, we use that
remote, and this parameter is ignored.

sleep (integer) Seconds to sleep after creating gist, but before collecting metadata on
the gist. If uploading a lot of stuff, you may want to set this to a higher value,
otherwise, you may not get accurate metadata for your gist. You can of course
always refresh afterwards by calling gist with your gist id.

... Further args passed on to link[http]{POST}

Details

Note that when browse=TRUE there is a slight delay in when we open up the gist in your default
browser and when the data will display in the gist. We could have this function sleep a while and
guess when it will be ready, but instead we open your gist right after we’re done sending the data to
GitHub. Make sure to refresh the page if you don’t see your content right away.
Likewise, the object that is returned from this function call may not have the updated and correct file information. You can retrieve that easily by calling `gist` with the gist id.

This function uses git instead of the HTTP API, and thus requires the R package `git2r`. If you don’t have `git2r` installed, and try to use this function, it will stop and tell you to install `git2r`.

This function using git is better suited than `gist_create` for use cases involving:

- **Big files** - The GitHub API allows only files of up to 1 MB in size. Using git we can get around that limit.
- **Binary files** - Often artifacts created are binary files like `.png`. The GitHub API doesn’t allow transport of binary files, but we can do that with git.

Another difference between this function and `gist_create` is that this function can collect all artifacts coming out of a knit process.

If a gist is somehow deleted, or the remote changes, when you try to push to the same gist again, everything should be fine. We now use `tryCatch` on the push attempt, and if it fails, we’ll add a new remote (which means a new gist), and push again.

**See Also**

`gist_create`, `gist_create_obj`

**Examples**

```r
## Not run:
# prepare a directory and a file
unlink("~/gitgist", recursive = TRUE)
dir.create("~/gitgist")
file <- system.file("examples", "stuff.md", package = "gistr")
writeLines(readLines(file), con = "~/gitgist/stuff.md")

# create a gist
gist_create_git(files = "~/gitgist/stuff.md")

# more than one file can be passed in
unlink("~/gitgist2", recursive = TRUE)
dir.create("~/gitgist2")
file.copy(file, 
"~/gitgist2/"
) cat("hello world", file = "~/gitgist2/hello_world.md")
list.files("~/gitgist2")
gist_create_git(c("~/gitgist2/stuff.md", 
"~/gitgist2/hello_world.md"))

# Include all files in a directory
unlink("~/gitgist3", recursive = TRUE)
dir.create("~/gitgist3")
cat("foo bar", file="~/gitgist3/foobar.txt")
cat("hello", file="~/gitgist3/hello.txt")
list.files("~/gitgist3")
gist_create_git("~/gitgist3")

# binary files
```
Create a gist from an R object

**Description**

Create a gist from an R object
**Usage**

```
gist_create_obj(x = NULL, description = "", public = TRUE, 
browse = TRUE, pretty = TRUE, filename = "file.txt", ...)
```

**Arguments**

- **x**: An R object, any of data.frame, matrix, list, character, numeric
- **description**: (character) Brief description of gist (optional)
- **public**: (logical) Whether gist is public (default: TRUE)
- **browse**: (logical) To open newly create gist in default browser (default: TRUE)
- **pretty**: (logical) For data.frame and matrix objects, create a markdown table. If FALSE, pushes up json. (default: TRUE)
- **filename**: Name of the file to create. Default: file.txt
- **...**: Further args passed on to link{httr}{POST}

**Details**

This function is specifically for going from R objects to a gist, whereas `gist_create` is for going from files or executing code

**See Also**

`gist_create, gist_create_git`

**Examples**

```r
## Not run:
## data.frame
### by default makes pretty table in markdown format
row.names(mtcars) <- NULL
gist_create_obj(mtcars)
gist_create_obj(iris)
### or just push up json
gist_create_obj(mtcars, pretty = FALSE)

## matrix
gist_create_obj(as.matrix(mtcars))
## list
gist_create_obj(apply(mtcars, 1, as.list))
## character
gist_create_obj(“hello, world”)
## numeric
gist_create_obj(runif(10))

## Assign a specific file name
gist_create_obj("
## header2

hey there!", filename = “my_markdown.md")
```
### gist_map

*Opens a full screen map after uploading a geojson file*

#### Description
Takes a gist object and a input geojson file name and renders fullscreen map.

#### Usage
```r
gist_map(x, browse = TRUE)
```

#### Arguments
- **x**: An object of class `gist` generated by `gist_create` or `gist_create_obj`
- **browse**: Default: `TRUE`. Set to `FALSE` if you don’t want to automatically browse to the URL.

#### Examples
```r
## Not run:
file <- system.file("examples", "ecoengine_eg.geojson", package = "gistr")
gist_id <- gist_create(file, browse = FALSE)
gist_map(gist_id)
## End(Not run)
```

### gist_save

*Save gist files to disk*

#### Description
Save gist files to disk.

#### Usage
```r
gist_save(gist, path = ".")
gist_open(x)
```
rate_limit

Arguments

- `gist`: A gist object or something coercible to a gist
- `path`: Root path to write to, a directory, not a file b/c a gist can contain many files. A folder is created with name of the gist id within this root directory. File names will be the same as given in the gist.
- `x`: An object of class `gist_files` (the output from `gist_save`)

Details

gist_save: files are written into a new folder, named by the gist id, e.g., a65ac7e5667b3f746913

gist_open: opens files in your editor/R GUI. Internally, uses `file.edit` to open files, using `getOption("editor")` to open the files. If you’re in R.app or RStudio, or other IDE’s, files will open in the IDE (I think).

Value

An object of class `gist_files`, S3 object containing file paths

Examples

```r
# Not run:
gist("a65ac7e5667b3f746913") %>% gist_save() 
gist("a65ac7e5667b3f746913") %>% gist_save() %>% gist_open() 
gist("https://gist.github.com/expersso/4ac33b9c0751fddc7f8") %>% gist_save()
```

## End(Not run)

### rate_limit

*Get rate limit information*

Description

Get rate limit information

Usage

`rate_limit(...)`

Arguments

... Named args to `GET`

Examples

```r
# Not run: 
rate_limit()
```

## End(Not run)
run

Run a .Rmd file

Description
Run a .Rmd file

Usage
run(x, filename = "code.R", knitopts = list())

Arguments
x  Input, one of: code wrapped in curly brackets and quotes, a file path to an .Rmd file, or a gist.
filename Name of the file to create, only used if code parameter is used. Default to code.R
knitopts (list) List of variables passed on to link[knitr]{knit}

Value
A path, unless a gist object is passed in, in which case a gist object is returned.

Examples
```r
## Not run:
# run a local file
file <- system.file("examples", "stuff.Rmd", package = "gistr")
run(file) %>% gist_create

# run code
run('`
````(r)
x <- letters
(numbers <- runif(8))
```
'}) %>% gist_create

# run a file from a gist, has to get file first
gists('minepublic')[2] %>% run() %>% update()
```
## End(Not run)
```
star

Star a gist

Description
Star a gist

Usage
star(gist, ...)
unstar(gist, ...)
star_check(gist, ...)

Arguments

gist A gist object or something that can be coerced to a gist object.

... Curl options passed on to GET

Value
A message, and a gist object, the same one input to the function.

Examples
## Not run:
id <- '4ac33b9c00751fddc7f8'
gist(id) %>% star()
gist(id) %>% star_check()
gist(id) %>% unstar()
gist(id) %>% unstar() %>% star()
gist(id) %>% star_check()
gist(id) %>% star()

# pass in a url
x <- "https://gist.github.com/expersso/4ac33b9c00751fddc7f8"
gist(x) %>% star
gist(x) %>% unstar

## End(Not run)
Make a table from gist or commit class or a list of either

Description

Make a table from gist or commit class or a list of either

Usage

\texttt{tabl}(x, ...)

\texttt{tabl\_data}(x)

Arguments

\texttt{x} \hspace{2cm} \text{Either a gist or commit class object or a list of either}

\texttt{...} \hspace{2cm} \text{Ignored}

Details

For commits we return a single data.frame. For gists, we always return a list so that we are returning data consistently, regardless of variable return data. So you can always index to the main data.frame with gist metadata and file info by doing \texttt{result$data}, and likewise for forks \texttt{result$forks} and history \texttt{result$history}

Value

A data.frame or list of data.frame’s

Examples

```r
## Not run:
# from a gist object
x <- as.gist('f1403260eb92f5dfa7e1')
res <- tabl(x)
res$data
res$forks
res$history

# from a list
ss <- gists('minepublic')
tabl(ss[1:3])
lapply(tabl(ss[1:3]), "[[", "data")
# index to data slots, but also make single data.frame
tabl_data(tabl(ss[1:3]))
## manipulate with dplyr
library("dplyr")
tabl_data(tabl(ss[1:30])) %>%
  select(id, description, owner_login) %>%
```
filter(grepl("gist gist gist", description))

# commits
x <- gists()[[2]] %>% commits()
tabl(x[[1]])

## many
x <- sapply(gists(per_page = 100), commits)
tabl(x) %>%
  select(id, login, change_status.total, url) %>%
  filter(change_status.total > 50)

# pass in a url
gist("https://gist.github.com/expersso/4ac33b9c00751fddc7f8") %>% tabl

## many
gg <- gists()
(urls <- vapply(gg, "[[", "html_url"))
lapply(urls[1:5], as.gist) %>% tabl()

# gist with forks and history
gist("1642874") %>% tabl

# gist with history, no forks
gist("c96d2e453c95d0166408") %>% tabl

## End(Not run)

update

Update/modify a gist

Description
Update/modify a gist

Usage
update(gist, description = gist$description, ...)

Arguments

gist A gist object or something coerceable to a gist
description (character) Brief description of gist (optional)
... Curl options passed on to GET
Examples

```r
## Not run:
file1 <- system.file("examples", "alm.md", package = "gistr")
file2 <- system.file("examples", "zoo.json", package = "gistr")

# add new files
gists(what = "minepublic")[[3]] %>%
  add_files(file1, file2) %>%
  update()

# update existing files
### file name has to match to current name

## update existing files
### file name has to match to current name

# delete existing files
### again, file name has to match to current name

# rename existing files
# For some reason, this operation has to upload the content too
### first name is old file name with path (must match), and second is
### new file name (w/o path)
## add first
gists(what = "minepublic")[[3]] %>%
  add_files(file1, file2) %>%
  update()
## then rename
gists(what = "minepublic")[[3]] %>%
  rename_files(list(file1, "newfile.md")) %>%
  update()
### you can pass in many renames

## End(Not run)
```
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