Package 'piggyback'

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Title Managing Larger Data on a GitHub Repository

Description Because larger (> 50 MB) data files cannot easily be committed to git, a different approach is required to manage data associated with an analysis in a GitHub repository. This package provides a simple work-around by allowing larger (up to 2 GB) data files to piggyback on a repository as assets attached to individual GitHub releases. These files are not handled by git in any way, but instead are uploaded, downloaded, or edited directly by calls through the GitHub API. These data files can be versioned manually by creating different releases. This approach works equally well with public or private repositories. Data can be uploaded and downloaded programmatically from scripts. No authentication is required to download data from public repositories.

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Repository CRAN

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piggyback-package

piggyback: Managing Larger Data on a GitHub Repository

Description

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Because larger (> 50 MB) data files cannot easily be committed to git, a different approach is required to manage data associated with an analysis in a GitHub repository. This package provides a simple work-around by allowing larger (up to 2 GB) data files to piggyback on a repository as assets attached to individual GitHub releases. These files are not handled by git in any way, but instead are uploaded, downloaded, or edited directly by calls through the GitHub API. These data files can be versioned manually by creating different releases. This approach works equally well with public or private repositories. Data can be uploaded and downloaded programmatically from scripts. No authentication is required to download data from public repositories.

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See Also

Useful links:

- https://github.com/ropensci/piggyback
- Report bugs at https://github.com/ropensci/piggyback/issues

pb_delete

Delete an asset attached to a release

Description

Delete an asset attached to a release

Usage

```
pb_delete(
   file = NULL,
   repo = guess_repo(),
   tag = "latest",
   .token = gh::gh_token()
)
```

Arguments

file file(s) to be deleted from the release. If NULL (default when argument is omitted), function will delete all attachments to the release. delete

repo Repository name in format "owner/repo". Defaults to guess_repo().

tag tag for the GitHub release to which this data should be attached.

. token GitHub authentication token, see [gh::gh_token()]

Value

TRUE (invisibly) if a file is found and deleted. Otherwise, returns NULL (invisibly) if no file matching the name was found.

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Description

Download data from an existing release

Usage

```
pb_download(
    file = NULL,
    dest = ".",
    repo = guess_repo(),
    tag = "latest",
    overwrite = TRUE,
    ignore = "manifest.json",
    use_timestamps = TRUE,
    show_progress = getOption("piggyback.verbose", default = interactive()),
    .token = gh::gh_token()
)
```

Arguments

file	name or vector of names of files to be downloaded. If NULL, all assets attached to the release will be downloaded.
dest	name of vector of names of where file should be downloaded. Can be a directory or a list of filenames the same length as file vector. Any directories in the path provided must already exist.
repo	Repository name in format "owner/repo". Defaults to guess_repo().
tag	tag for the GitHub release to which this data should be attached.
overwrite	Should any local files of the same name be overwritten? default TRUE.
ignore	a list of files to ignore (if downloading "all" because file=NULL).
use_timestamps	DEPRECATED.
show_progress	<pre>logical, show a progress bar be shown for uploading? Defaults to [interactive()] - can also set globally with options("piggyback.verbose")</pre>
.token	GitHub authentication token, see [gh::gh_token()]

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pb_download_url

Get the download url of a given file

Description

Returns the URL download for a public file. This can be useful when writing scripts that may want to download the file directly without introducing any dependency on piggyback or authentication steps.

Usage

```
pb_download_url(
   file = NULL,
   repo = guess_repo(),
   tag = "latest",
   .token = gh::gh_token()
)
```

Arguments

file name or vector of names of files to be downloaded. If NULL, all assets attached to the release will be downloaded.

repo Repository name in format "owner/repo". Defaults to guess_repo().

tag for the GitHub release to which this data should be attached.

.token GitHub authentication token, see [gh::gh_token()]

Value

the URL to download a file

pb_list

```
## End(Not run)
```

pb_list

List all assets attached to a release

Description

List all assets attached to a release

Usage

```
pb_list(repo = guess_repo(), tag = NULL, .token = gh::gh_token())
```

Arguments

repo Repository name in format "owner/repo". Defaults to guess_repo().

tag which release tag(s) do we want information for? If NULL (default), will return a

table for all available release tags.

.token GitHub authentication token, see [gh::gh_token()]

Value

a data.frame of release asset names, release tag, timestamp, owner, and repo.

See Also

pb_releases for a list of all releases in repository

```
## Not run:
pb_list("cboettig/piggyback-tests")
## End(Not run)
```

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List releases in repository

Description

This function retrieves information about all releases attached to a given repository.

Usage

```
pb_releases(
  repo = guess_repo(),
  .token = gh::gh_token(),
  verbose = getOption("piggyback.verbose", default = TRUE)
)
```

Arguments

repo GitHub repository specification in the form of "owner/repo", if not specified

will try to guess repo based on current working directory.

. token a GitHub API token, defaults to gh::gh_token()
verbose defaults to TRUE, use FALSE to silence messages

Value

a dataframe of all releases available within a repository.

Examples

```
try({ # wrapped in try block to prevent CRAN errors
pb_releases("nflverse/nflverse-data")
})
```

pb_release_create

Create a new release on GitHub repo

Description

Create a new release on GitHub repo

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Usage

```
pb_release_create(
  repo = guess_repo(),
  tag,
  commit = NULL,
  name = tag,
  body = "Data release",
  draft = FALSE,
  prerelease = FALSE,
  .token = gh::gh_token()
```

Arguments

repo Repository name in format "owner/repo". Will guess the current repo if not

specified.

tag to create for this release

commit Specifies the commit-ish value that determines where the Git tag is created from.

Can be any branch or full commit SHA (not the short hash). Unused if the git tag already exists. Default: the repository's default branch (usually master).

name The name of the release. Defaults to tag.

body Text describing the contents of the tag. default text is "Data release".

draft default FALSE. Set to TRUE to create a draft (unpublished) release.

prerelease default FALSE. Set to TRUE to identify the release as a pre-release.

.token GitHub authentication token, see [gh::gh_token()]

See Also

Other release_management: pb_release_delete()

Examples

```
## Not run:
pb_release_create("cboettig/piggyback-tests", "v0.0.5")
## End(Not run)
```

pb_release_delete

Create a new release on GitHub repo

Description

Create a new release on GitHub repo

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Usage

```
pb_release_delete(repo = guess_repo(), tag, .token = gh::gh_token())
```

Arguments

repo Repository name in format "owner/repo". Defaults to guess_repo().

tag name to delete. Must be one of those found in pb_releases()\$tag_name.

. token GitHub authentication token, see [gh::gh_token()]

See Also

```
Other release_management: pb_release_create()
```

Examples

```
## Not run:
pb_release_delete("cboettig/piggyback-tests", "v0.0.5")
## End(Not run)
```

pb_upload

Upload data to an existing release

Description

NOTE: you must first create a release if one does not already exists.

Usage

```
pb_upload(
    file,
    repo = guess_repo(),
    tag = "latest",
    name = NULL,
    overwrite = "use_timestamps",
    use_timestamps = NULL,
    show_progress = getOption("piggyback.verbose", default = interactive()),
    .token = gh::gh_token(),
    dir = NULL
)
```

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Arguments

file path to file to be uploaded

repo Repository name in format "owner/repo". Defaults to guess_repo().

tag for the GitHub release to which this data should be attached.

name for uploaded file. If not provided will use the basename of file (i.e.

filename without directory)

overwrite overwrite any existing file with the same name already attached to the on re-

lease? Default behavior is based on timestamps, only overwriting those files

which are older.

use_timestamps DEPRECATED.

show_progress logical, show a progress bar be shown for uploading? Defaults to [interactive()]

- can also set globally with options("piggyback.verbose")

.token GitHub authentication token, see [gh::gh_token()]

dir directory relative to which file names should be based, defaults to NULL for

current working directory.

```
## Not run:
# Needs your real token to run
readr::write_tsv(mtcars,"mtcars.tsv.xz")
pb_upload("mtcars.tsv.xz", "cboettig/piggyback-tests")
## End(Not run)
```

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