

Package ‘RepoGenerator’

January 20, 2025

Title Generates a Project and Repo for Easy Initialization of a Workshop

Version 0.0.1

Description Generates a project and repo for easy initialization of a GitHub repo for R workshops. The repo includes a README with instructions to ensure that all users have the needed packages, an 'RStudio' project with the right directories and the proper data. The repo can then be used for hosting code taught during the workshop.

Depends R (>= 3.3.0)

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Encoding UTF-8

LazyData true

Imports rstudioapi, git2r, rmarkdown, http

RoxygenNote 6.0.1

Suggests testthat, covr

URL <https://github.com/jaredlander/RepoGenerator>

BugReports <https://github.com/jaredlander/RepoGenerator/issues>

SystemRequirements GitHub, 'RStudio'

NeedsCompilation no

Author Jared P. Lander [aut, cre]

Maintainer Jared P. Lander <packages@jaredlander.com>

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callGitHubAPI *callGitHubAPI*

Description

Function for interacting with the GitHub API

Usage

```
callGitHubAPI(repoName, token, apiURL = "https://api.github.com",  
  path = "/user/repos", encoding = c("json", "form"), method = httr::POST)
```

```
createGitHubRepo(repoName, token)
```

```
deleteGitHubRepo(owner, repoName, token)
```

```
checkGitHubRepoExists(owner, repoName, token)
```

Arguments

repoName	Name of repo to interact with
token	GitHub Personal Access Token: this should be the actual token, not the name of an environment variable
apiURL	The base URL for the GitHub API, this really should not need to be changed
path	The API endpoint
encoding	The type of encoding for the request, either json or form
method	The method to be used, as an R function, such as POST or GET
owner	GitHub username

Details

Builds up and executes a GitHub API request

Value

An API status

Functions

- createGitHubRepo: Creating a GitHub Repo
- deleteGitHubRepo: Deleting a GitHub Repo
- checkGitHubRepoExists: Check that a GitHub Repo exists

Author(s)

Jared P. Lander

createDownloadText *createDownloadText*

Description

Builds text for file that downloads data

Usage

```
createDownloadText(info)
```

Arguments

`info` [data.frame](#) listing data sources. Must have at least the following columns: Local (the name the file should be on disk after downloaded), Remote (the URL of the file), Mode (the way to write to disk, either 'w' or 'wb').

Details

Creates a block of code. The first line is a comment of the file name, then it uses [download.file\(\)](#) using the remote URL and the local filename.

Value

Returns the block of text

Author(s)

Jared P. Lander

Examples

```
datalist <- read.csv(system.file('metadata/DataList.csv', package='RepoGenerator'),
  stringsAsFactors=FALSE, header=TRUE)
cat(RepoGenerator:::createDownloadText(datalist))
```

`createRepo`*createRepo*

Description

Creates a new project and pushes it to GitHub

Usage

```
createRepo(name, path, data, packages = c("here", "knitr", "rmarkdown",
  "tidyverse", "usethis"), user, organizer = user, token = "GITHUB_PAT",
  readme, ssh = TRUE)
```

Arguments

name	Name to use for project and repo
path	Location for the new project
data	data.frame listing data sources. Must have at least the following columns: Local (the name the file should be on disk after downloaded), Remote (the URL of the file), Mode (the way to write to disk, either 'w' or 'wb').
packages	Vector of packages that the user will be instructed to install.
user	GitHub username
organizer	Name of organizer of class. This can be in the form a a Markdown-style link.
token	The name of the environment variable holding the GitHub access token. This can be set with <code>base::Sys.setenv()</code> .
readme	Path to parameterized rmarkdown document with parameters <code>className</code> , <code>organizer</code> and <code>packages</code> . If missing the default from the package is used.
ssh	If TRUE, change the remote to use ssh instead of https

Details

This is designed to make a bare repo to be used for workshops. It will create a new project with a customized README and customized download file. It then pushes this to GitHub.

Value

If all operations are successful, returns TRUE

Author(s)

Jared P. Lander

datafiles

List of a few datasets commonly used in our workshops.

Description

A dataset containing information about data to download for a workshop.

Usage

datafiles

Format

A data frame with 53940 rows and 10 variables:

Data Colloquial name of data

Remote URL of file

Local Name to use for file on disc

Type Type of file, such as CSV, Excel

Mode Way to write file to disc such as 'w' for text files or 'wb' for binary files

Tag Tag for the type of data

Purpose What the data is used to show

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