

Package ‘RepoGenerator’

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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

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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 base::Sys.setenv() . |
| 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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