Package 'washr'

November 7, 2024

Title Publication Toolkit for Water, Sanitation and Hygiene (WASH) Data

Version 1.0.1

Description

A toolkit to set up an R data package in a consistent structure. Automates tasks like tidy data export, data dictionary documentation, README and website creation, and citation management.

License GPL (>= 3)

Encoding UTF-8

RoxygenNote 7.3.2

Imports desc (>= 1.4.3), devtools (>= 2.4.5), cffr (>= 1.0.1), pkgdown (>= 2.0.7), rlang (>= 1.1.3), usethis (>= 2.2.3), utils (>= 4.3.3)

Language en-GB

Config/Needs/website rmarkdown

Date 2024-11-01

URL https://openwashdata.github.io/washr/

BugReports https://github.com/openwashdata/washr/issues

Suggests knitr, rmarkdown, testthat (>= 3.2.1), withr (>= 3.0.0)

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2024-11-07 17:50:02 UTC

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fill_dictionary   *Fill in the dictionary file based on the tidy data information*

Description

Fill in the dictionary file based on the tidy data information

Usage

```
fill_dictionary(dict_path, data_dir)
```

Arguments

dict_path	Path to the dictionary csvfile.
data_dir	Path to the directory of the tidy R data objects. Defaults to data/

Value

A tibble data frame of dataset dictionary with an empty description column to be written.

Examples

```
## Not run:
update_dictionary(dict_path = "data-raw/my-dictionary.csv", data = "data/")

## End(Not run)
```

---

generate_roxygen_docs *Generate roxygen2 documentation from a CSV file*

Description

This function takes a CSV table with columns `variable_name` and `description` as input, optionally filters it by `variable_name`, and outputs roxygen2 documentation for \describe and \item.

Usage

```
generate_roxygen_docs(input_file_path, output_file_path, df_name = NULL)
```

Arguments

input_file_path

> Path to the input CSV file.

output_file_path

> Path to the output file that will contain the roxygen2 documentation.

df_name   Optional name of the variable to filter the input dataframe by. Default is NULL.

Value

Character string of a generated roxygen documentation.

Examples

```
## Not run:
# Generate roxygen2 documentation from example.csv
generate_roxygen_docs("example.csv", "output.R")
# Generate roxygen2 documentation from example.csv for a specific variable name
generate_roxygen_docs("example.csv", "output.R", df_name = "specific_variable")

## End(Not run)
```

---

setup_dictionary *Create a dictionary file for tidy data sets*

Description

`setup_dictionary()` generates a dictionary CSV file in the `data/` directory. The dictionary file contains information on the tidy data sets such as directory, file names, variable names, variable types, and descriptions. If tidy data exists, the dictionary is populated with relevant information; otherwise, it creates an empty dictionary CSV file.

Usage

```
setup_dictionary()
```

Value

NULL. Error if raw data is not found or not in a package directory.

Examples

```
## Not run:
setup_rawdata()
# Go to data_processing.R, clean the raw data and export tidy data
setup_dictionary()

## End(Not run)
```

---

setup_rawdata   *Create the data-raw directory with a data-processing.R template*

Description

setup_rawdata() creates a directory for raw data and an example script named data_processing.R
for importing, processing and exporting the tidy data. The template assumes that the dataset name
is the same as the data package name.

Usage

```
setup_rawdata()
```

Value

NULL. This function will create a directory "data-raw" under the package directory.

Examples

```
## Not run:
  setup_rawdata()

## End(Not run)
```

---

setup_readme   *Generate the README RMarkdown file*

Description

setup_readme() uses the openwashdata README template to generate README files based on datasets retrieved from the data/ directory. It helps in creating consistent and informative README documentation for your data packages.

Usage

```
setup_readme()
```

Value

NULL. This function creates a README.Rmd under the package directory.

Examples

```
## Not run:
# Generate the README file after setting up the dictionary
setup_dictionary()
# Complete and save the dictionary CSV file with variable descriptions
setup_readme()

## End(Not run)
```

---

setup_roxygen   *Set up roxygen documentation for all tidy data sets using the dictionary*

Description

Creates or updates Roxygen documentation for all tidy data sets found in the dictionary file.

When first run, this function creates the Roxygen documentation with placeholders for the title and description field. The dictionary should include columns for directory, file name, variable name, variable type, and description. This function generates Roxygen comments with this information, facilitating consistent and thorough documentation for your data sets.

When re-run this function, this function updates only the variable description entries in the Roxygen documentation files within R/ directory. The title and description fields remain unchanged.

Usage

```
setup_roxygen()
```

Value

NULL. This function creates documentation files inside "R/". Error if tidy data cannot be found.

Examples

```
## Not run:
setup_dictionary()
# Once the dictionary is created, go to data-raw/dictionary.csv and complete the column description.
setup_roxygen()

## End(Not run)
```

---

setup_website   *Set up a pkgdown website for the data package*

Description

setup_website() uses the openwashdata pkgdown template to create a website for the data package based on its README.md file. The website provides a structured and visually appealing presentation of the package's documentation.

Usage

```
setup_website(has_example = FALSE)
```

Arguments

has_example   Logical. Should the pkgdown website include a vignette page for writing an
                example? Defaults to FALSE.

Value

NULL. Error if no README file is found.

Examples

```
## Not run:
# Set up the pkgdown website including a vignette page
 setup_website(has_example = TRUE)

## End(Not run)
```

---

update_citation *Update the citation file for the dataset.*

Description

Create a citation *.cff file for the released dataset from a given DOI(Digital Object Identifier). It adds the DOI badge to the README RMarkdown file and re-build the README.md and pkgdown website if exists.

Usage

```
update_citation(doi)
```

Arguments

doi DOI(Digital Object Identifier), e.g., 10.5281/zenodo.11185699

Value

NULL. A citation .cff file is written under the root directory.

Examples

```
## Not run:
  update_citation(doi = "10.5281/zenodo.11185699")

## End(Not run)
```

---

update_description *Update the DESCRIPTION file to conform with openwashdata standards*

Description

This function updates the DESCRIPTION file of an R package to comply with openwashdata standards. It ensures that fields such as License, Language, Date, URL, and others are correctly specified.

Usage

```
update_description(
  file = ".",
  github_user = "https://github.com/openwashdata/"
)
```

Arguments

`file`	Character. The file path to the DESCRIPTION file of the R package. Defaults to the current working directory.
`github_user`	Character. The URL path to the GitHub user or organization that hosts the current package. Defaults to "https://github.com/openwashdata".

Value

NULL. Update fields directly in DESCRIPTION file.

Examples

```
## Not run:
 # Update DESCRIPTION file in the current package
update_description()

 # Update DESCRIPTION file in a specific package
update_description(file = "path/to/your/package/DESCRIPTION")

 # Update DESCRIPTION file with a specific GitHub user
update_description(github_user = "https://github.com/yourusername")

## End(Not run)
```

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