

Package ‘PaRe’

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Type Package

Title PaRe (Package Reviewer) is the Successor of the DependencyReviewer Package

Version 0.1.6

Description Reviews other packages during code review by looking at their dependencies, code style, code complexity, and how interanlly defined functions interact with one another.

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checkDependencies	<i>checkDependencies</i>
-------------------	--------------------------

Description

Check package dependencies

Usage

```
checkDependencies(
  repo,
  dependencyType = c("Imports", "Depends"),
  verbose = TRUE
)
```

Arguments

repo	(Repository) Repository object.
dependencyType	(character) Types of dependencies to be included
verbose	(logical : TRUE) TRUE or FALSE. If TRUE, progress will be reported.

Value

([data.frame](#))
Data frame with all the packages that are now permitted.

column	data type
package	character
version	character

Examples

```
# Set cahce, usually not required.
withr::local_envvar(
  R_USER_CACHE_DIR = tempfile()
)

fetchedRepo <- tryCatch(
  {
    # Set dir to clone repository to.
    tempDir <- tempdir()
    pathToRepo <- file.path(tempDir, "glue")

    # Clone repo
    git2r::clone(
      url = "https://github.com/tidyverse/glue.git",
      local_path = pathToRepo
    )

    # Create instance of Repository object.
    repo <- PaRe::Repository$new(path = pathToRepo)

    # Set fetchedRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchedRepo to FALSE if an error is encountered.
    FALSE
  },
)
```

```
warning = function(w) {
  # Set fetchedRepo to FALSE if a warning is encountered.
  FALSE
}

if (fetchedRepo) {
  # Use checkDependencies on the Repository object.
  checkDependencies(repo)
  checkDependencies(repo, dependencyType = c("Imports", "Suggests"))
}
```

checkInstalled	<i>checkInstalled</i>
----------------	-----------------------

Description

Checks if suggested packages are installed.

Usage

```
checkInstalled()
```

Value

[logical](#)
Logical depending if suggested packages are installed.

Code	<i>R6 Code class</i>
------	----------------------

Description

Class representing a piece of code.

Methods

Public methods:

- [Code\\$new\(\)](#)
- [Code\\$print\(\)](#)
- [Code\\$getLines\(\)](#)
- [Code\\$getNLines\(\)](#)
- [Code\\$getName\(\)](#)
- [Code\\$clone\(\)](#)

Method new(): Initializer method

Usage:
Code\$new(name, lines)
Arguments:

name ([character](#))
Name of Code object.
lines ([character](#))
Vector of lines Code object.

Returns: invisible(self)

Method print(): Overload generic print, to print Code object.

Usage:

Code\$print(...)

Arguments:

... further arguments passed to or from other methods. See [print](#).

Returns: ([base]character)

Method getLines(): Get method for lines.

Usage:

Code\$getLines()

Returns: ([character](#))

Vector of lines in the Code object.

Method getNLines(): Get method for number of lines.

Usage:

Code\$getNLines()

Returns: ([numeric](#)) Number of lines in the Code object.

Method getName(): Get method for Name.

Usage:

Code\$getName()

Returns: ([character](#))

Name of the Code object.

Method clone(): The objects of this class are cloneable with this method.

Usage:

Code\$clone(deep = FALSE)

Arguments:

deep Whether to make a deep clone.

See Also

Other Representations: [File](#), [Function](#), [Repository](#)

countPackageLines	<i>countPackageLines</i>
-------------------	--------------------------

Description

Counts the package lines of a [Repository](#) object.

Usage

```
countPackageLines(repo)
```

Arguments

repo ([Repository](#))
Repository object.

Value

([tibble](#))
) Tibble containing the amount of lines per file in the Repository object.

Examples

```
fetchRepo <- tryCatch(
  {
    # Set dir to clone repository to.
    tempDir <- tempdir()
    pathToRepo <- file.path(tempDir, "glue")

    # Clone repo
    git2r::clone(
      url = "https://github.com/tidyverse/glue.git",
      local_path = pathToRepo
    )

    # Create instance of Repository object.
    repo <- PaRe::Repository$new(path = pathToRepo)

    # Set fetchedRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchedRepo to FALSE if an error is encountered.
    FALSE
  },
  warning = function(w) {
    # Set fetchedRepo to FALSE if a warning is encountered.
    FALSE
  }
)

if (fetchRepo) {
  # Run countPackageLines on the Repository object.
  countPackageLines(repo = repo)
}
```

exportDiagram	<i>exportDiagram</i>
---------------	----------------------

Description

Exports the diagram from pkgDiagram to a PDF-file.

Usage

```
exportDiagram(diagram, fileName)
```

Arguments

diagram	(grViz) Graph object from <code>pkgDiagram</code> .
fileName	(character) Path to save the diagram to, as PDF.

Value

(NULL)

Examples

```
fetchRepo <- tryCatch(
  {
    # Set dir to clone repository to.
    tempDir <- tempdir()
    pathToRepo <- file.path(tempDir, "glue")

    # Clone repo
    git2r::clone(
      url = "https://github.com/tidyverse/glue.git",
      local_path = pathToRepo
    )

    # Create instance of Repository object.
    repo <- PaRe::Repository$new(path = pathToRepo)

    # Set fetchRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchRepo to FALSE if an error is encountered.
    FALSE
  },
  warning = function(w) {
    # Set fetchRepo to FALSE if a warning is encountered.
    FALSE
  }
)

if (fetchRepo) {
  # Run pkgDiagram on the Repository object.
```

```

pkgDiagram(repo = repo) %>%
  # Export the diagram to a temp file.
  exportDiagram(fileName = tempfile())
}

```

File

R6 File class

Description

Class representing a file containing code.

Super class

PaRe::Code -> File

Methods

Public methods:

- [File\\$new\(\)](#)
- [File\\$getFunctions\(\)](#)
- [File\\$getFunctionTable\(\)](#)
- [File\\$getType\(\)](#)
- [File\\$getFilePath\(\)](#)
- [File\\$getBlameTable\(\)](#)
- [File\\$clone\(\)](#)

Method `new()`: Initializer method

Usage:

`File$new(repoPath, filePath)`

Arguments:

`repoPath` ([character](#))

Path to repository.

`filePath` ([character](#))

Relative path to file

Returns: `invisible(self)`

Method `getFunctions()`: Get method to get a list of Function objects

Usage:

`File$getFunctions()`

Returns: ([list](#))

List of [Function](#) objects.

Method `getFunctionTable()`: Get method to retrieve the function table.

Usage:

`File$getFunctionTable()`

Returns: ([data.frame](#))

column	data type
name	character
lineStart	integer
lineEnd	numeric
nArgs	integer
cycloComp	integer

Method `getType()`: Gets type of file

Usage:

```
File$getType()
```

Returns: ([character](#))

Method `getFilePath()`: Gets relative file path

Usage:

```
File$getFilePath()
```

Returns: ([character](#))

Method `getBlameTable()`: Gets table of git blame

Usage:

```
File$getBlameTable()
```

Returns: ([tibble](#))

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

```
File$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

See Also

Other Representations: [Code](#), [Function](#), [Repository](#)

Examples

```

fetchedRepo <- tryCatch(
{
  # Set dir to clone repository to.
  tempDir <- tempdir()
  pathToRepo <- file.path(tempDir, "glue")

  # Clone repo
  git2r::clone(
    url = "https://github.com/tidyverse/glue.git",
    local_path = pathToRepo
  )

  # Create instance of Repository object.
  repo <- PaRe::Repository$new(path = pathToRepo)

```

```

    # Set fetchedRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchedRepo to FALSE if an error is encountered.
    FALSE
  },
  warning = function(w) {
    # Set fetchedRepo to FALSE if a warning is encountered.
    FALSE
  }
)

if (fetchedRepo) {
  files <- repo$getRFiles()
  files[[1]]
}

```

Function

*R6 Function class.***Description**

Class representing a function.

Super class

PaRe::Code -> Function

Methods**Public methods:**

- [Function\\$new\(\)](#)
- [Function\\$getFunction\(\)](#)
- [Function\\$clone\(\)](#)

Method `new()`: Initializer for Function object.

Usage:

`Function$new(name, lineStart, lineEnd, lines)`

Arguments:

`name` ([character](#))

Name of Function.

`lineStart` ([numeric](#))

Line number where function starts in File.

`lineEnd` ([numeric](#))

Line number where function ends in File.

`lines` ([c](#))

Vector of type [character](#) Lines of just the function in File.

Returns: `invisible(self)`

Method `getFunction()`: Get method to get defined functions in a File object.

Usage:

`Function$getFunction()`

Returns: ([data.frame](#))

column	data type
name	(character)
lineStart	(integer)
lineEnd	(numeric)
nArgs	(integer)
cycloComp	(integer)

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

`Function$clone(deep = FALSE)`

Arguments:

`deep` Whether to make a deep clone.

See Also

Other Representations: [Code](#), [File](#), [Repository](#)

Examples

```
fetchedRepo <- tryCatch(
  {
    # Set dir to clone repository to.
    tempDir <- tempdir()
    pathToRepo <- file.path(tempDir, "glue")

    # Clone repo
    git2r::clone(
      url = "https://github.com/tidyverse/glue.git",
      local_path = pathToRepo
    )

    # Create instance of Repository object.
    repo <- PaRe::Repository$new(path = pathToRepo)

    # Set fetchedRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchedRepo to FALSE if an error is encountered.
    FALSE
  },
  warning = function(w) {
    # Set fetchedRepo to FALSE if a warning is encountered.
    FALSE
  }
)

if (fetchedRepo) {
```

```
files <- repo$getRFiles()
file <- files[[1]]
funcs <- file$getFunctions()
funcs[[1]]
}
```

functionUseGraph	<i>functionUseGraph</i>
------------------	-------------------------

Description

functionUseGraph

Usage

functionUseGraph(repo)

Arguments

repo (Repository)

Value

(graph)

funcsUsedInFile	<i>funcsUsedInFile</i>
-----------------	------------------------

Description

Support function

Usage

funcsUsedInFile(files, verbose = FALSE)

Arguments

files (list) of (File)
verbose (logical)

Value

(list)

funcsUsedInLine	<i>funcsUsedInLine</i>
-----------------	------------------------

Description

Support function for funcsUsedInFile.

Usage

```
funcsUsedInLine(lines, name, i, verbose = FALSE)
```

Arguments

lines	(c) of (character)
name	(character)
i	(numeric)
verbose	(logical : FALSE)

Value

([data.frame](#))

column	data type
pkg	character
fun	character
line	numeric

getApplyCall	<i>getApplyCall</i>
--------------	---------------------

Description

getApplyCall

Usage

```
getApplyCall(fun, defFuns)
```

Arguments

fun	(Function) Function object.
defFuns	(data.frame) See getDefinedFunctions

Value

([data.frame](#))

getApplyFromLines	<i>getApplyFromLines</i>
-------------------	--------------------------

Description

getApplyFromLines

Usage

getApplyFromLines(lines)

Arguments

lines [\(c\)](#)
Vector of [\(character\)](#). See [getDefinedFunctions](#)

Value

[\(character\)](#)

getDefaultPermittedPackages	<i>getDefaultPermittedPackages</i>
-----------------------------	------------------------------------

Description

Gets permitted packages. An internet connection is required.

Usage

getDefaultPermittedPackages(base = TRUE)

Arguments

base [\(logical: TRUE\)](#)
TRUE Base packages will be included.
FALSE Base packages will be ignored.

Value

[\(tibble\)](#)

column	data type
package	character
version	character

Examples

```
# Set cache
withr::local_envvar(
  R_USER_CACHE_DIR = tempfile()
)

if (interactive()) {
  getDefaultPermittedPackages()
}
```

getDefinedFunctions	<i>getDefinedFunctions</i>
---------------------	----------------------------

Description

Gets all the defined functions from a [Repository](#) object.

Usage

```
getDefinedFunctions(repo)
```

Arguments

repo	(Repository) Repository object.
------	--

Value

([data.frame](#))

column	data type
name	character
lineStart	integer
lineEnd	numeric
nArgs	integer
cycloComp	integer
fileName	character

Examples

```
fetchedRepo <- tryCatch(
  {
    # Set dir to clone repository to.
    tempDir <- tempdir()
    pathToRepo <- file.path(tempDir, "glue")

    # Clone repo
    git2r::clone(
      url = "https://github.com/tidyverse/glue.git",
      local_path = pathToRepo
    )
  }
```

```

    # Create instance of Repository object.
    repo <- PaRe::Repository$new(path = pathToRepo)

    # Set fetchedRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchedRepo to FALSE if an error is encountered.
    FALSE
  },
  warning = function(w) {
    # Set fetchedRepo to FALSE if a warning is encountered.
    FALSE
  }
)

if (fetchedRepo) {
  repo <- PaRe::Repository$new(pathToRepo)

  getDefinedFunctions(repo)
}

```

getDplyCall

getDplyCall

Description

getDplyCall

Usage

getDplyCall(fun, defFuns)

Arguments

fun	(Function) Function object.
defFuns	(data.frame) See getDefinedFunctions

Value

([data.frame](#))

getDlplyCallFromLines	<i>getDlplyCallFromLines</i>
-----------------------	------------------------------

Description

getDlplyCallFromLines

Usage

```
getDlplyCallFromLines(lines)
```

Arguments

lines	(c) Vector of (character).
-------	---

Value

([character](#))

getDoCall	<i>getDoCall</i>
-----------	------------------

Description

getDoCall

Usage

```
getDoCall(fun, defFuns)
```

Arguments

fun	(Function) Function object.
defFuns	(data.frame) See getDefinedFunctions

Value

([data.frame](#))

getDoCallFromLines	<i>getDoCallFromLines</i>
--------------------	---------------------------

Description

getDoCallFromLines

Usage

getDoCallFromLines(lines)

Arguments

lines	(c)
-------	-----------------------

Vector of ([character](#)). See [getDefinedFunctions](#)

Value

([character](#))

getExportedFunctions	<i>getExportedFunctions</i>
----------------------	-----------------------------

Description

Gets all the exported functions of a package, from NAMESPACE.

Usage

getExportedFunctions(path)

Arguments

path	(character)
------	-------------------------------

Path to package

Value

([c](#)) Vector of [character](#) exported functions.

getFunCall	<i>getFunCall</i>
------------	-------------------

Description

getFunCall

Usage

```
getFunCall(fun, defFuns)
```

Arguments

fun	(Function) Function object.
defFuns	(data.frame) See getDefinedFunctions .

Value

([data.frame](#))

getFunctionDiagram	<i>subsetGraph</i>
--------------------	--------------------

Description

Create a subset of the package diagram containing all in coming and out going paths from a specified function.

Usage

```
getFunctionDiagram(repo, functionName)
```

Arguments

repo	(Repository) Repository object.
functionName	(character) Name of the function to get all paths from.

Value

(htmlwidgets)
Subsetted diagram. See [grViz](#)

Examples

```

fetchedRepo <- tryCatch(
{
  # Set dir to clone repository to.
  tempDir <- tempdir()
  pathToRepo <- file.path(tempDir, "glue")

  # Clone repo
  git2r::clone(
    url = "https://github.com/tidyverse/glue.git",
    local_path = pathToRepo
  )

  # Create instance of Repository object.
  repo <- PaRe::Repository$new(path = pathToRepo)

  # Set fetchedRepo to TRUE if all goes well.
  TRUE
},
error = function(e) {
  # Set fetchedRepo to FALSE if an error is encountered.
  FALSE
},
warning = function(w) {
  # Set fetchedRepo to FALSE if a warning is encountered.
  FALSE
}
)

if (fetchedRepo) {
  # Run getFunctionDiagram on the Repository object.
  getFunctionDiagram(repo = repo, functionName = "glue")
}

```

getFunctionUse

summariseFunctionUse

Description

Summarise functions used in R package.

Usage

```
getFunctionUse(repo, verbose = FALSE)
```

Arguments

repo	(Repository) Repository object.
verbose	(logical : FALSE) Prints message to console which file is currently being worked on.

Usage

getFunsPerDefFun(files, defFuns)

Arguments

files (list)
List of File objects.

defFuns (data.frame)
See getDefinedFunctions.

Value

data.frame

	column from to	data type character character
--	----------------------	-------------------------------------

getGraphData	getGraphData
--------------	--------------

Description

Get the dependency interactions as a graph representation.

Usage

getGraphData(repo, packageTypes = c("Imports"))

Arguments

repo (Repository)
Repository object.

packageTypes (c: c("Imports")) of (character) Any of the following options may be included in a vector:

- "imports"
- "depends"
- "suggests"
- "enhances"
- "linkingto"

Value

(as_tbl_graph)

Examples

```

fetchedRepo <- tryCatch(
  {
    # Set dir to clone repository to.
    tempDir <- tempdir()
    pathToRepo <- file.path(tempDir, "glue")

    # Clone repo
    git2r::clone(
      url = "https://github.com/tidyverse/glue.git",
      local_path = pathToRepo
    )

    # Create instance of Repository object.
    repo <- PaRe::Repository$new(path = pathToRepo)

    # Set fetchedRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchedRepo to FALSE if an error is encountered.
    FALSE
  },
  warning = function(w) {
    # Set fetchedRepo to FALSE if a warning is encountered.
    FALSE
  }
)

if (fetchedRepo) {
  # Run getGraphData on the Repository object.
  if (interactive()) {
    getGraphData(repo = repo, packageTypes = c("Imports"))
  }
}

```

getMultiLineFun

*getMultiLineFun***Description**

getMultiLineFun

Usage

getMultiLineFun(line, lines)

Arguments

line	(numeric) Current line number.
lines	(c) Vector of (character) lines.

Value

(character)

getVersionDf	<i>getVersionDf</i>
--------------	---------------------

Description

Function to compare different versions.

Usage

```
getVersionDf(dependencies, permittedPackages)
```

Arguments

dependencies	(data.frame)		
		column	data type
		package	character
		version	character

permittedPackages	(data.frame)		
		column	data type
		package	character
		version	character

Value

(data.frame)			
		column	data type
		package	character
		version	character

graphToDot	<i>graphToDot</i>
------------	-------------------

Description

graphToDot

Usage

graphToDot(graph)

Arguments

graph ([graph](#))

Value

htmlwidgets
See [grViz](#).

lintRepo	<i>lintRepo</i>
----------	-----------------

Description

Get all the lintr messages of the [Repository](#) object.

Usage

lintRepo(repo)

Arguments

repo ([Repository](#))

Value

([data.frame](#))

column	data type	description
filename	character	Name of the file
line_number	double	Line in which the message was found
column_number	double	Column in which the message was found
type	character	Type of message
message	character	Style, warning, or error message
line	character	Line of code in which the message was found
linter	character	Linters used

Examples

```

fetchedRepo <- tryCatch(
  {
    # Set dir to clone repository to.
    tempDir <- tempdir()
    pathToRepo <- file.path(tempDir, "glue")

    # Clone repo
    git2r::clone(
      url = "https://github.com/tidyverse/glue.git",
      local_path = pathToRepo
    )

    # Create instance of Repository object.
    repo <- PaRe::Repository$new(path = pathToRepo)

    # Set fetchedRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchedRepo to FALSE if an error is encountered.
    FALSE
  },
  warning = function(w) {
    # Set fetchedRepo to FALSE if a warning is encountered.
    FALSE
  }
)

if (fetchedRepo) {
  # Run lintRepo on the Repository object.
  messages <- lintRepo(repo = repo)
}

```

lintScore

lintScore

Description

Function that scores the lintr output as a percentage per message type (style, warning, error). Lintr messages / lines assessed * 100

Usage

```
lintScore(repo, messages)
```

Arguments

repo	(Repository) Repository object.
messages	(data.frame) Data frame containing lintr messages. See lintRepo .

Value[\(tibble\)](#)**type** [\(character\)](#) Type of message.**pct** [\(double\)](#) Score.**Examples**

```

fetchedRepo <- tryCatch(
  {
    # Set dir to clone repository to.
    tempDir <- tempdir()
    pathToRepo <- file.path(tempDir, "glue")

    # Clone repo
    git2r::clone(
      url = "https://github.com/tidyverse/glue.git",
      local_path = pathToRepo
    )

    # Create instance of Repository object.
    repo <- PaRe::Repository$new(path = pathToRepo)

    # Set fetchedRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchedRepo to FALSE if an error is encountered.
    FALSE
  },
  warning = function(w) {
    # Set fetchedRepo to FALSE if a warning is encountered.
    FALSE
  }
)

if (fetchedRepo) {
  messages <- lintRepo(repo = repo)

  # Run lintScore on the Repository object.
  lintScore(repo = repo, messages = messages)
}

```

makeGraph

*makeGraph***Description**

Makes the graph

Usage

```
makeGraph(funsPerDefFun, pkgName, expFuns, ...)
```

Arguments

funcsPerDefFun	(data.frame)	Functions per defined function data.frame.
pkgName	(character)	Name of package.
expFuns	(data.frame)	Exported functions data.frame.
...		Optional other parameters for grViz .

Value

(htmlwidget)
Diagram of the package. See [grViz](#).

makeReport	<i>makeReport</i>
------------	-------------------

Description

Uses rmarkdown's render function to render a html-report of the given package.

Usage

```
makeReport(repo, outputFile, showCode = FALSE)
```

Arguments

repo	(Repository)	Repository object.
outputFile	(character)	Path to html-file.
showCode	(logical : FALSE)	Logical to show code or not in the report.

Value

(NULL)

Examples

```
## Not run:
fetchedRepo <- tryCatch(
  {
    # Set dir to clone repository to.
    tempDir <- tempdir()
    pathToRepo <- file.path(tempDir, "glue")

    # Clone repo
    git2r::clone(
      url = "https://github.com/darwin-eu/IncidencePrevalence.git",
      local_path = pathToRepo
```

```

    )

    # Create instance of Repository object.
    repo <- PaRe::Repository$new(path = pathToRepo)

    # Set fetchedRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchedRepo to FALSE if an error is encountered.
    FALSE
  },
  warning = function(w) {
    # Set fetchedRepo to FALSE if a warning is encountered.
    FALSE
  }
)

if (fetchedRepo) {
  # Run makeReport on the Repository object.
  makeReport(repo = repo, outputFile = tempfile())
}

## End(Not run)

```

pkgDiagram

pkgDiagram

Description

Creates a diagram of all defined functions in a package.

Usage

```
pkgDiagram(repo, verbose = FALSE, ...)
```

Arguments

repo	(Repository) Repository object.
verbose	(logical) Turn verbose messages on or off.
...	Optional other parameters for grViz .

Value

(htmlwidget)
Diagram htmlwidget object. See [createWidget](#)

Examples

```

fetchedRepo <- tryCatch(
{
  # Set dir to clone repository to.
  tempDir <- tempdir()
  pathToRepo <- file.path(tempDir, "glue")

  # Clone repo
  git2r::clone(
    url = "https://github.com/tidyverse/glue.git",
    local_path = pathToRepo
  )

  # Create instance of Repository object.
  repo <- PaRe::Repository$new(path = pathToRepo)

  # Set fetchedRepo to TRUE if all goes well.
  TRUE
},
error = function(e) {
  # Set fetchedRepo to FALSE if an error is encountered.
  FALSE
},
warning = function(w) {
  # Set fetchedRepo to FALSE if a warning is encountered.
  FALSE
}
)

if (fetchedRepo) {
  # Run pkgDiagram on the Repository object.
  pkgDiagram(repo = repo)
}

```

printMessage

*printMessage***Description**

Prints messages dependening of the nrow of the number of rows of the notPermitted and versionCheck data.frames

Usage

```
printMessage(notPermitted, versionCheck)
```

Arguments

```

notPermitted  ([base]data.frame)
versionCheck  ([base]data.frame)

```

Value

(data.frame)

column	data type
package	character
version	character

Repository

*R6 Repository class.***Description**

Class representing the Repository

Methods**Public methods:**

- `Repository$new()`
- `Repository$getName()`
- `Repository$getPath()`
- `Repository$getFiles()`
- `Repository$getRFiles()`
- `Repository$getDescription()`
- `Repository$getFunctionUse()`
- `Repository$gitCheckout()`
- `Repository$gitPull()`
- `Repository$gitBlame()`
- `Repository$clone()`

Method `new()`: Initializer for Repository class*Usage:*`Repository$new(path)`*Arguments:*path ([character](#))

Path to R package project

Returns: `invisible(self)`**Method** `getName()`: Get method for name.*Usage:*`Repository$getName()`*Returns:* ([character](#))

Repository name

Method `getPath()`: Get method fro path*Usage:*

`Repository$getPath()`

Returns: ([character](#))

Path to Repository folder

Method `getFiles()`: Get method to get a list of [File](#) objects.

Usage:

`Repository$getFiles()`

Returns: ([list](#))

List of [File](#) objects.

Method `getRFiles()`: Get method to get only R-files.

Usage:

`Repository$getRFiles()`

Returns: ([list](#))

List of [File](#) objects.

Method `getDescription()`: Get method to get the description of the package. See: [description](#).

Usage:

`Repository$getDescription()`

Returns: ([description](#))

Description object.

Method `getFunctionUse()`: Get method for `functionUse`, will check if `functionUse` has already been fetched or not.

Usage:

`Repository$getFunctionUse()`

Returns: ([data.frame](#))

See [getFunctionUse](#).

Method `gitCheckout()`: Method to run 'git checkout <branch/commit hash>'

Usage:

`Repository$gitCheckout(branch, ...)`

Arguments:

`branch` ([character](#))

Name of branch or a hash referencing a specific commit.

`...` Further parameters for [checkout](#).

Returns: `invisible(self)`

Method `gitPull()`: Method to run 'git pull'

Usage:

`Repository$gitPull(...)`

Arguments:

`...` Further parameters for [pull](#).

Returns: `invisible(self)`

Method `gitBlame()`: Method to fetch data generated by 'git blame'.

Usage:


```
Repository$gitBlame()
```

Returns: ([tibble](#))

column	data type
repository	character
author	character
file	character
date	character
lines	integer

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

```
Repository$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

See Also

Other Representations: [Code](#), [File](#), [Function](#)

Examples

```

fetchedRepo <- tryCatch(
  {
    # Set dir to clone repository to.
    tempDir <- tempdir()
    pathToRepo <- file.path(tempDir, "glue")

    # Clone repo
    git2r::clone(
      url = "https://github.com/tidyverse/glue.git",
      local_path = pathToRepo
    )

    # Create instance of Repository object.
    repo <- PaRe::Repository$new(path = pathToRepo)

    # Set fetchedRepo to TRUE if all goes well.
    TRUE
  },
  error = function(e) {
    # Set fetchedRepo to FALSE if an error is encountered.
    FALSE
  },
  warning = function(w) {
    # Set fetchedRepo to FALSE if a warning is encountered.
    FALSE
  }
)

if (fetchedRepo) {
  repo
}

```

whiteList

whiteList

Description

data.frame containing links to csv-files which should be used to fetch white-listed dependencies.

Usage

```
whiteList
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 3 rows and 4 columns.

Details

By default three csv's are listed:

1. darwin
2. hades
3. tidyverse

The data.frame is locally fetched under: `system.file(package = "PaRe", "whiteList.csv")`

Manual insertions into this data.frame can be made, or the data.frame can be overwritten entirely.

The data.frame itself has the following structure:

column	data type	description
source	character	name of the source
link	character	link or path to the csv-file
package	character	columnname of the package name column in the csv-file being linked to
version	character	columnname of the version column in the csv-file being linked to

The csv-files that are being pointed to should have the following structure:

Examples

```
if (interactive()) {
  # Dropping tidyverse
  whiteList <- whiteList %>%
    dplyr::filter(source != "tidyverse")

  # getDefaultPermittedPackages will now only use darwin and hades
  getDefaultPermittedPackages()
}
```

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