

Package ‘PaRe’

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Type Package

Title A Way to Perform Code Review or QA on Other Packages

Version 0.1.13

Language en-US

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

URL <https://github.com/darwin-eu-dev/PaRe>

BugReports <https://github.com/darwin-eu-dev/PaRe/issues>

License Apache License (>= 2)

Encoding UTF-8

LazyData true

RoxygenNote 7.2.3

Imports cli (>= 3.6.0),
cyclocomp (>= 1.1.0),
desc (>= 1.4.2),
DiagrammeR (>= 1.0.9),
DiagrammeRsvg (>= 0.1),
dplyr (>= 1.1.0),
glue (>= 1.6.2),
lintr (>= 3.0.2),
magrittr (>= 2.0.3),
pak (>= 0.2.0),
rmarkdown (>= 2.20),
rsvg (>= 2.4.0),
stringr (>= 1.5.0),
igraph (>= 1.3.5),
utils,
R6 (>= 2.5.1),
git2r (>= 0.31.0),
checkmate (>= 2.1.0)

Suggests ggplot2,
plotly,
ggraph,
DT,
magick,

```
withr,  
cowplot,  
knitr,  
testthat (>= 3.0.0)
```

VignetteBuilder knitr

Roxygen list(markdown = TRUE)

Config/testthat/edition 3

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addPareArticle	<i>addPareArticle</i>
----------------	-----------------------

Description

Writes an Rmd-file to `./vignettes/articles/PaReReport.Rmd`. The relative path is dictated by the specified path in the [Repository](#) object.

Usage

```
addPareArticle(repo)
```

Arguments

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

Value

NULL Writes Rmd-file to `./vignettes/articles/PaReReport.Rmd`

Examples

```
fetchRepo <- 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 (fetchRepo) {
  # Run makeReport on the Repository object.
  addPaReArticle(repo)
}
```

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 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 (fetchedRepo) {
  # 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 pkgDiagram .
fileName	(character) Path to save the diagram to, as PDF.

Value

(NULL)

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) %>%
    # 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
    )
  },
  error = function(e) {
    # Handle error
  }
)

```

```

    )

    # 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$getRFiles()
    file <- files[[1]]
    funs <- file$getFunctions()
    funs[[1]]
  }
}
```

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

Description

functionUseGraph

Usage

functionUseGraph(repo)

Arguments

repo (Repository)

Value

(graph)

funsUsedInFile	<i>funsUsedInFile</i>
----------------	-----------------------

Description

Support function

Usage

funsUsedInFile(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()

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)

getDplyCallFromLines *getDplyCallFromLines***Description**

getDplyCallFromLines

Usage

getDplyCallFromLines(lines)

Arguments

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

Value

(character)

`getDoCall`*getDoCall*

Description`getDoCall`**Usage**`getDoCall(fun, defFuns)`**Arguments**

<code>fun</code>	(Function) Function object.
<code>defFuns</code>	(data.frame) See getDefinedFunctions

Value[\(data.frame\)](#)

`getDoCallFromLines`*getDoCallFromLines*

Description`getDoCallFromLines`**Usage**`getDoCallFromLines(lines)`**Arguments**

<code>lines</code>	(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	<i>summariseFunctionUse</i>
----------------	-----------------------------

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.

Value

([tibble](#))

column	data type
file	character
line	numeric
pkg	character
fun	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) {
    # Run getFunctionUse on the Repository object.
    getFunctionUse(repo = repo, verbose = TRUE)
  }
```

getFunsPerDefFun	<i>getFunsPerDefFun</i>
------------------	-------------------------

Description

getFunsPerDefFun

Usage

getFunsPerDefFun(files, defFuns)

Arguments

- files [\(list\)](#)
List of [File](#) objects.
- defFuns [\(data.frame\)](#)
See [getDefinedFunctions](#).

Value

[data.frame](#)

column	data type
from	character
to	character

getGraphData	<i>getGraphData</i>
--------------	---------------------

Description

Get the dependency interactions as a graph representation.

Usage

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

Arguments

repo	(Repository) Repository object.
packageTypes	(<code>c("Imports")</code>) of (character) Any of the following options may be included in a vector: <ul style="list-style-type: none"> • "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	<i>getMultiLineFun</i>
-----------------	------------------------

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

lintRepo

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

funsPerDefFun	(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

```
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())
}

```

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	<i>printMessage</i>
--------------	---------------------

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
	package
	version
	data type
	character
	character

Repository	<i>R6 Repository class.</i>
------------	-----------------------------

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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