Package 'PaRe'

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Type Package

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

Version 0.1.16

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)

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RoxygenNote 7.3.1

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), parallel

Suggests ggplot2, plotly, ggraph, DT, magick, withr, cowplot, knitr, curl, testthat (>= 3.0.0)

VignetteBuilder knitr

Config/testthat/edition 3

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Repository CRAN

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Contents

`addPareArticle` *addPareArticle*

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

```
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.
  addPaReArticle(repo)
}
```

checkDependencies *checkDependencies*

Description

Check package dependencies

Usage

```
checkDependencies(repo, dependencyType = c("Imports", "Depends"), nThreads = 1)
```

Arguments

repo	(Repository) Repository object.
dependencyType	(character()) Types of dependencies to be included
nThreads	(numeric(1): 1) Number of threads to use to fetch permitted packages

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` *checkInstalled*

Description

Checks if suggested packages are installed.

Usage

```
checkInstalled()
```

Value

logical
Logical depending if suggested packages are installed.

`Code` *R6 Code class*

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(1))`
Name of Code object.

`lines (character(n))`
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: `(character(n))`

Method `getLines()`**:** Get method for lines.

Usage:

```
Code$getLines()
```

Returns: `(character(n))` Vector of lines in the Code object.

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

Usage:

```
Code$getNLines()
```

Returns: `(numeric(1))` Number of lines in the Code object.

Method `getName()`**:** Get method for Name.

Usage:

```
Code$getName()
```

Returns: `(character(1))` 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 *countPackageLines*

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

```
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 countPackageLines on the Repository object.
  countPackageLines(repo = repo)
}
```

---

exportDiagram *exportDiagram*

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
    )

    # 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` *functionUseGraph*

Description

functionUseGraph

Usage

```
functionUseGraph(repo)
```

Arguments

`repo`	(Repository)

Value

(graph)

`funsUsedInFile` *funsUsedInFile*

Description

Support function

Usage

```
funsUsedInFile(files, verbose = FALSE)
```

Arguments

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

Value

(list)

`funsUsedInLine` *funsUsedInLine*

Description

Support function for funsUsedInFile.

Usage

```
funsUsedInLine(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` *getApplyCall*

Description

getApplyCall

Usage

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

Arguments

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

Value

(data.frame)

`getApplyFromLines` *getApplyFromLines*

Description

getApplyFromLines

Usage

```
getApplyFromLines(lines)
```

Arguments

`lines`	(c) Vector of (character). See getDefinedFunctions

Value

(character)

`getDefaultPermittedPackages` *getDefaultPermittedPackages*

Description

Gets permitted packages. An internet connection is required.

Usage

```
getDefaultPermittedPackages(nThreads = 1)
```

Arguments

`nThreads`	(`numeric(1)`: 1) Number of threads to use to fetch permitted packages

Value

(tibble)

column	data type
package	character
version	character

Examples

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

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

getDefinedFunctions *getDefinedFunctions*

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)
}
```

`getDlplyCall` *getDlplyCall*

Description

getDlplyCall

Usage

```
getDlplyCall(fun, defFuns)
```

Arguments

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

Value

(data.frame)

`getDlplyCallFromLines` *getDlplyCallFromLines*

Description

getDlplyCallFromLines

Usage

```
getDlplyCallFromLines(lines)
```

Arguments

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

Value

(character)

`getDoCall` *getDoCall*

Description

getDoCall

Usage

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

Arguments

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

Value

(data.frame)

getDoCallFromLines *getDoCallFromLines*

Description

getDoCallFromLines

Usage

```
getDoCallFromLines(lines)
```

Arguments

lines	(c) Vector of (character). See getDefinedFunctions

Value

(character)

getExportedFunctions *getExportedFunctions*

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 *getFunCall*

Description

getFunCall

Usage

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

Arguments

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

Value

(data.frame)

getFunctionDiagram *subsetGraph*

Description

Create a subset of the package diagram containing all in comming 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.

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` *getFunsPerDefFun*

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` *getGraphData*

Description

Get the dependency interactions as a graph representation.

Usage

```
getGraphData(repo, packageTypes = c("Imports"), nThreads = 1)
```

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"
nThreads	(numeric(1): 1) Number of threads to use to fetch permitted packages

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)

`graphToDot` *graphToDot*

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	Linter 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 functinos data.frame.
`...`	Optional other parameters for grViz.

Value

(htmlwidget)
Diagram of the package. See grViz.

---

makeReport *makeReport*

Description

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

Usage

```
makeReport(repo, outputFile, showCode = FALSE, nThreads = 1)
```

Arguments

repo	(Repository) Repository object.
outputFile	(character) Path to html-file.
showCode	(logical: FALSE) Logical to show code or not in the report.
nThreads	(numeric(1): 1) Number of threads to use to fetch permitted packages

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)
}
```

`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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