

Package ‘packageDiff’

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Title Compare R Package Differences

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Description It provides utility functions for investigating changes within R packages. The `pkgInfo()` function extracts package information such as exported and non-exported functions as well as their arguments. The `pkgDiff()` function compares this information for two versions of a package and creates a diff file viewable in a browser.

Imports diffr, htmlwidgets

License GPL (>= 2)

Depends R (>= 2.10)

URL <https://github.com/couthcommander/packageDiff>

Encoding UTF-8

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NeedsCompilation no

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Contents

packageDiff-package	2
pkgDiff	3
pkgInfo	3
print.pkgInfo	4
unzipPackage	5
Index	6

packageDiff-package *Package Diff*

Description

It provides utility functions for investigating changes within R packages. The `pkgInfo` function extracts package information such as exported and non-exported functions as well as their arguments. The `pkgDiff` function compares this information for two versions of a package and creates a diff file viewable in a browser.

Details

This package is experimental. Please submit bugs to <https://github.com/couthcommander/packageDiff>.

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See Also

Useful links:

- <https://github.com/couthcommander/packageDiff>

Examples

```
tar1 <- system.file("examples", "yaml_2.1.18.tar.gz", package = "packageDiff")
tar2 <- system.file("examples", "yaml_2.1.19.tar.gz", package = "packageDiff")
a <- pkgInfo(tar1)
b <- pkgInfo(tar2)
pkgDiff(a, b)

a <- pkgInfo('https://cran.r-project.org/src/contrib/Archive/yaml/yaml_2.1.18.tar.gz')
b <- pkgInfo('https://cran.r-project.org/src/contrib/Archive/yaml/yaml_2.1.19.tar.gz')
pkgDiff(a, b)
```

pkgDiff

Package Diff

Description

This function compares version changes within packages.

Usage

```
pkgDiff(a, b, doc = TRUE, width = 80)
```

Arguments

a	First package, a 'pkgInfo' object.
b	Second package, a 'pkgInfo' object.
doc	Include documentation in diff output.
width	Output width.

Details

Generate diffs between package information.

Value

'diffr' object is open in browser

Examples

```
tar1 <- system.file("examples", "yaml_2.1.18.tar.gz", package = "packageDiff")
tar2 <- system.file("examples", "yaml_2.1.19.tar.gz", package = "packageDiff")
a <- pkgInfo(tar1)
b <- pkgInfo(tar2)
pkgDiff(a, b)
```

pkgInfo

Extract Package Information

Description

This function extracts information from an R package.

Usage

```
pkgInfo(pkg, leaveRemains = FALSE)
```

Arguments

pkg The compressed (tar.gz) build file of an R package.
 leaveRemains Keep decompressed package in temp directory.

Details

Generate package information from its build file.

Value

Package Package name
 Version Version number
 Imports Imported packages
 Suggests Suggested packages
 ImportedFunctions Functions imported from other packages
 ExportedFunctions Functions exported from package
 AllFunctions All defined functions
 FormalArgs Function arguments
 Data Dimension information on data sets
 documentation Full package documentation

Examples

```
tarfile <- system.file("examples", "acepack_1.3-3.3.tar.gz", package = "packageDiff")
info <- pkgInfo(tarfile)

url <- 'https://cran.r-project.org/src/contrib/Archive/acepack/acepack_1.3-3.3.tar.gz'
info <- pkgInfo(url)
```

print.pkgInfo *Print Package Information*

Description

Print method for 'packageInfo' class.

Usage

```
## S3 method for class 'pkgInfo'
print(x, doc = FALSE, ...)
```

Arguments

x A packageInfo object.
doc Include documentation in output.
... Additional parameters, unused at this time.

Details

Print its argument and return it invisibly.

Examples

```
tarfile <- system.file("examples", "acepack_1.3-3.3.tar.gz", package = "packageDiff")
pkgInfo(tarfile)

url <- 'https://cran.r-project.org/src/contrib/Archive/acepack/acepack_1.3-3.3.tar.gz'
info <- pkgInfo(url)
print(info)
```

unzipPackage

Extract R Package

Description

Untar an R package into a temp directory.

Usage

```
unzipPackage(x)
```

Arguments

x The compressed (tar.gz) build file of an R package, either local or URL.

Value

List of files extracted.

Examples

```
tarfile <- system.file("examples", "acepack_1.3-3.3.tar.gz", package = "packageDiff")
info <- unzipPackage(tarfile)
```

Index

`packageDiff (packageDiff-package)`, [2](#)
`packageDiff-package`, [2](#)
`pkgDiff`, [3](#)
`pkgInfo`, [3](#)
`print.pkgInfo`, [4](#)
`unzipPackage`, [5](#)