

# Package ‘packageDiff’

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**Title** Compare R Package Differences

**Version** 0.1

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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

**RoxygenNote** 6.1.1

**NeedsCompilation** no

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packageDiff-package    *Package Diff*

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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.

## Details

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

## Author(s)

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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 'packageInfo'
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.
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**Value**

List of files extracted.

**Examples**

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

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