

# Package ‘devR’

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**Title** devR

**Version** 0.0.0.9000

**Description** devR is an R package which provides an R6class Workspace.R with methods to easy create and update an R package.

**Depends** roxygen2, devtools, R6

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 5.0.1

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## Description

Workspace

## Usage

Workspace

## Format

R6Class object.

## Value

Object of R6Class with methods to easy create and update an R package.

## Fields

root character. Stores absolute path of working root directory.

## Methods

`new(Xroot = getwd())` This method is used to create object of this class with `Xroot` as absolute path for working root directory.

`folderCreate(XfolderList)` This method create folders (`dir.create`) given a list of paths (relative with respect to `Xroot`) by `folderList` parameter.

`fileCreate(XfileList)` This method create files (`file.create`) given a list of paths (relative with respect to `Xroot`) by `fileList` parameter.

`fileList(Xfolder='', Xpattern = '*', Xfull = TRUE, Xrecursive = FALSE)` This method returns a vector of relative paths (if `Xfull = FALSE` return filenames). Regex filters can be applied by `Xpattern` argument.

`fileCopy(XfileList, Xfolder)` This method copy a list of files into a folder. All paths relative to `self$root`.

`gitInit(Xfolder)` This method initialize (`init` && `add --all` && `commit -m "Init"`) a git repository in a given `Xfolder`.

`gitCommit(Xfolder, Xmessage)` The method commit (`add .` && `commit -m "Xmessage"`) the git repository in a given `Xfolder`.

`libraryCreate(Xlibrary)` This method creates skeleton package with `create()` function from `roxygen2`, adds forlder to complete the package skeleton and runs `gitInit()`.

`libraryUpdate(Xlibrary)` This method updates package documentation (with `document()` function from `roxygen2`), creates a pdf manual, builds and installs the package and runs `gitCommit()`.

`readAllFiles(Xpath, Xpattern = '*.csv', Xbind = TRUE, X2env = TRUE)` This method import all files in a folder and returns a only `data.table`. If `Xbind = FALSE` returns a list of `data.table` with the same name than files and save in Global Environment. If `X2env = FALSE` returns a named list of `data.table`.

`rd2pdf(Xtitle, Xoutput, Xinput)` This method coverts an `Xinput` Rd file into `Xoutput` pdf with `Xtitle` from `Xroot`.

`runPython(Xscript)` This method run python script saved in `Xscript` path from `self$root`.

`runSystem(Xcommand)` This method run bash command typed in `Xcommand` from `self$root`.

## Author(s)

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## Examples

```
# Instance at current working directory
w = Workspace$new(getwd())
# Create a package skeleton (roxygen2::create()),
# git init, copy some files,
# set documentation (devtools::document()),
# git commit and install
name = 'newLibrary'
# Create a Workspace object at working root directory (\code{getwd()})
w = Workspace$new()
# Create a library skeleton and git init
w$libraryCreate(name)
# Generate Rd documentation, pdf manual, build, install and git commit
w$libraryUpdate(name, 'version 0.0.0.9')
```

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