Package: NoviceDeveloperResources (via r-universe)

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Title Resources to Assist Novice Developers

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Depends R (>= 4.2.0)

Imports utils, devtools, installationDriver, stringr

Description Assist novice developers when preparing a single package or a set of integrated packages to submit to CRAN. Automate the following individual or batch processing: check local source packages; build local .tar.gz source files; install packages from local .tar.gz files; detect conflicts between function names in the environment.

License GPL (>= 2)

Encoding UTF-8

VignetteBuilder knitr

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

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NeedsCompilation no

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`checkBuildInstallSourcePackage` *checkBuildInstallSourcePackage*

Description

check, build, and install local source package

Usage

```
checkBuildInstallSourcePackage(
  dir,
  packs,
  packCheck,
  check = TRUE,
  autoLibrary = FALSE
)
```

Arguments

`dir`	character string containing the path name of the directory holding the package folders
`packs`	character vector of the names of the packages
`packCheck`	character vector of the names of the packages to check()
`check`	Boolean if FALSE skip check() and document()
`autoLibrary`	Boolean if TRUE automate library() command altering search path

Details

I wanted to include "library(packs)" in the program, but this is not allowed. The user can "cat" the return value and copy and paste to facilitate doing this manually.

Value

returns a list whose components are

- character string that can be printed using "echo" and then copy and paste by the user to load or update the packages
- return value of dateTable()

Examples

```
## Not run:
# you need to specify dir, packs that are on your own computer !!
# make sure installationDriver() does its job !
remove.packages("hash")
dir1<-"~/personal/hearts/hearts_card_game_bayesian_inference"
dir2<-"packages/inference_packages/inference_packages/"
#packs<-c("cardUtils","clickableImageMap")
packs<-c("cardUtils","clickableImageMap","editDriver",
"heartsCIM","iterationDriver","logos","playOneTrick",
"playWholeHandDriverPassParams","probTab","relaxDriver","remapping")
l<-checkBuildInstallSourcePackage(sprintf("%s/%s",dir1,dir2),packs,"clickableImageMap",FALSE,TRUE)

## End(Not run)
```

---

conflictOfInterest *conflictOfInterest*

Description

determine if there are any conflicts between the functions in the attached packages and the R global environment

Usage

```
conflictOfInterest()
```

Value

returns a list identifying the conflicts for each conflicted function

Examples

```
l<-conflictOfInterest()
```

conflictOfInterestRestricted *conflictOfInterestRestricted*

Description

restrict the conflicted functions (retrieved by conflictOfInterest()) to those in user-specified packages

Usage

```
conflictOfInterestRestricted(packs)
```

Arguments

packs	character vector of user-specified packages

Value

returns a subset of the return value of conflictOfInterest()

Examples

```
## Not run:
# you need to specify packs that are on your own computer !!
pack<-c("retrieve","tcpflow")
conflictOfInterestRestricted(pack)

## End(Not run)
```

dateTable *dateTable*

Description

list of file dates

Usage

```
dateTable(dt, f, when)
```

Arguments

dt	date table in list format
f	character string containing the full path name of the file
when	character string either "before" or "after"

Details

allows the user to confirm that the .tar.gz and the library packages are not left-overs

Value

updated version of dt

Examples

```
## Not run:
# you need to specify dir, f that is on your own computer !!
dt<-list()
dir<-"~/personal/hearts/hearts_card_game_bayesian_inference/packages"
f<-sprintf("%s/%s",dir,"NoviceDeveloperResources_1.1.0.tar.gz")
when<-"before"
dateTable(dt,f,when)

## End(Not run)
```

`fExistsAge` *fExistsAge*

Description

check for newly created file existence and age

Usage

```
fExistsAge(f)
```

Arguments

`f`	character string containing the path name of the file

Value

returns no values,but has side effect of terminating if file is not valid

Examples

```
## Not run:
# you need to specify f that is on your own computer !!
dir1<-"/Users/barryzeeberg/personal/hearts"
dir2<-"hearts_card_game_bayesian_inference/packages"
f<-"NoviceDeveloperResources_1.1.0.tar.gz"
fExistsAge(sprintf("%s/%s/%s",dir1,dir2,f))

## End(Not run)
```

formatSearchPack *formatSearchPack*

Description

given a package name, reformat it as listed in the search path

Usage

```
formatSearchPack(pack)
```

Arguments

pack	list of character strings containing the names of a package

Value

returns list of package names formatted it as listed in the search path

Examples

```
pack<-c("retrieve","tcpflow")
formatSearchPack(pack)
```

getSysLib *getSysLib*

Description

For consistency, make sure that we are always using the designated library rather than a random library

Usage

```
getSysLib()
```

Value

returns a character string containing the path name for the designated library

Examples

```
if(interactive()) {
  sysLib<-getSysLib()
}
```

inSearchPath *inSearchPack*

Description

is the package listed in the search path

Usage

```
inSearchPath(pack)
```

Arguments

pack	list of character strings containing the name of a package

Value

returns list of Booleans TRUE if the package is listed in the search path

Examples

```
## Not run:
# you need to specify packs that are on your own computer !!
pack<-c("retrieve","tcpflow")
inSearchPath(pack)

## End(Not run)
```

zload *zload*

Description

detach old version of package from search path, load new version, and validate

Usage

```
zload(lib, pack, dt)
```

Arguments

lib	character string containing the name of the user-designated library
pack	character string containing the name of a package
dt	date table in list format

Value

returns updated version of date table

Examples

```
## Not run:
# you need to specify packs that are on your own computer !!
lib<-getSysLib()
dt<-list()
zload(lib,"NoviceDeveloperResources",dt)

## End(Not run)
```

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