Package 'autoLibLoad'

June 8, 2026

Version 1.0

Date 2026-05-25

Title Automate Retrieving, Building, Installing and Loading Specified Packages

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Depends R (>= 4.2.0)

Imports utils, stringr, devtools, tools, vprint

Description Packages required for the search path may be located in the CRAN repository, the system library, or a local directory. We automate determining the disposition of each required package, retrieving it, and loading it as needed.

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Encoding UTF-8

VignetteBuilder knitr

Suggests knitr, rmarkdown, testthat (>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation no

Config/roxygen2/version 8.0.0

Repository CRAN

Date/Publication 2026-06-08 15:10:09 UTC

Contents

autoLibLoad *autoLibLoad*

Description

given a list of packages, which ones are available from search path, installed packages, loaded packages, local directory

Usage

```
autoLibLoad(dir, packs, verbose = c(0, 3))
```

Arguments

dir	character string full path name of directory containing package sources
packs	list of package names
verbose	integer param passed to vprint()

Value

returns no value, but has side effect of modifying search() path and installing packages from CRAN

Examples

```
## Not run:
# replace dir and packs with your own versions!!
try(remove.packages("cardUtils"))
try(detach("package:cardUtils"))
try(remove.packages("ggplot2"))
try(detach("package:ggplot2"))
dir1<-"~/personal/hearts/hearts_card_game_bayesian_inference/packages/"
dir2<-"inference_packages/inference_packages/"
dir<-sprintf("%s/%s",dir1,dir2)
packs<-c("cardUtils","clickableImageMap","ggplot2","xxxx")
l<-autoLibLoad(dir,packs)

## End(Not run)
```

getSysLib *getSysLib*

Description

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

Usage

```
getSysLib(verbose = 4)
```

Arguments

verbose	parameter passed to vprint()

Value

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

Examples

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

is_package_on_cran2 *is_package_on_cran2*

Description

which pakages in list are available on CRAN

Usage

```
is_package_on_cran2(pkg_names)
```

Arguments

pkg_names	list of package names

Value

returns a list of packages that are available on CRAN

Examples

```
is_package_on_cran2(c("ggplot2","xxxxx"))
```

`loadPacks` *loadPacks*

Description

load packages as required

Usage

```
loadPacks(packs)
```

Arguments

`packs`	list of package names

Details

not allowed to have direct call to library() in CRAN package version that is permitted in CRAN package - see zload() in NoviceDeveloperResources package

Value

returns no value, but has side effect of loading packages in search() path

Examples

```
## Not run:
# replace dir and packs with your own versions!!
install.packages("ggplot2")
packs<-"ggplot2"
l<-loadPacks(packs)

## End(Not run)

## Not run:
# replace pack with your own versions!!
pack<-"ggplot2"
install.packages(pack)
eval(parse(text = sprintf("library(%s, verbose=TRUE)",pack)))

## End(Not run)
```

packagesInDir *packagesInDir*

Description

determine potential R packages within a given directory

Usage

```
packagesInDir(dir)
```

Arguments

dir	character string full path name to directory holding R packages

Value

returns a list of potential R packages

Examples

```
## Not run:
# replace dir and packs with your own versions!!
dir1<-"~/personal/hearts/hearts_card_game_bayesian_inference/packages/"
dir2<-"inference_packages/inference_packages/"
dir<-sprintf("%s/%s",dir1,dir2)
packagesInDir(dir)

## End(Not run)
```

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