

# Package: NoviceDeveloperResources (via r-universe)

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**Version** 1.2.0

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**Title** Resources to Assist Novice Developers

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**Depends** R (>= 4.2.0)

**Imports** utils, devtools

**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)

**RoxygenNote** 7.3.1

**Config/testthat/edition** 3

**NeedsCompilation** no

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**Repository** <https://barryzee.r-universe.dev>

**RemoteUrl** <https://github.com/cran/NoviceDeveloperResources>

**RemoteRef** HEAD

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checkBuildInstallSourcePackage  
*checkBuildInstallSourcePackage*

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### Description

check, build, and install local source package

### Usage

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

### Arguments

<code>dir</code>	character string containing the path name of the directory holding the package folders
<code>packs</code>	character vector of the names of the packages
<code>packCheck</code>	character vector of the names of the packages to check()
<code>autoLibrary</code>	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 !!
dir1<-"~/personal/hearts/hearts_card_game_bayesian_inference"
dir2<-"packages/inference_packages/inference_packages/"
packs<-c("cardUtils","clickableImageMap")
l<-checkBuildInstallSourcePackage(sprintf("%s/%s",dir1,dir2),packs,packs,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)
```

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<code>getSysLib</code>	<i>getSysLib</i>
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**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()
}
```

---

<code>inSearchPath</code>	<i>inSearchPack</i>
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---

**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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