

# Package: r2shortcode (via r-universe)

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**Type** Package

**Title** Shorten Function Names of Functions in Another Package and  
Create an Index to Make Them Accessible

**Version** 0.2

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**Description** When creating a package, authors may sometimes struggle with coming up with easy and straightforward function names, and at the same time hoping that other packages do not already have the same function names. In trying to meet this goal, sometimes, function names are not descriptive enough and may confuse the potential users. The purpose of this package is to serve as a package function short form generator and also provide shorthand names for other functions. Having this package will entice authors to create long function names without the fear of users not wanting to use their packages because of the long names. In a way, everyone wins - the authors can use long descriptive function names, and the users can use this package to make short functions names while still using the package in question.

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**URL** <https://github.com/oobianom/r2shortcode>

**BugReports** <https://github.com/oobianom/r2shortcode>

**Depends** R (> 3.6)

**Imports** utils, stringr

**Suggests** rmarkdown, knitr, qpdf

**Encoding** UTF-8

**VignetteBuilder** knitr

**Language** en-US

**LazyData** false

**RoxygenNote** 7.2.3**Repository** https://oobianom.r-universe.dev**RemoteUrl** https://github.com/oobianom/r2shortcode**RemoteRef** HEAD**RemoteSha** a1a2d3296a975cf04c59aa3f5ca0b136be055a74**Contents**

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chooseShortName	<i>Short algorithm to choose a short name based on a given long name</i>
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**Description**

A very simple and short algorithm to choose a short name based on a given name

**Usage**

```
chooseShortName(
  fullname = stop("Invalid string name entered."),
  withPrefix = NULL,
  withSuffix = NULL,
  envir = NULL,
  silent = FALSE
)
```

**Arguments**

fullname	The name you intend to shorten
withPrefix	Prefix to include in front of the new short name
withSuffix	Suffix to include in front of the new short name
envir	The environment where to store the name
silent	Return response at the end of evaluations?

**Value**

Short forms of functions

**Examples**

```
long_function_name <- 'longFunctionCall'  
short_function_name <- chooseShortName(long_function_name)  
short_function_name # the result should "lFC"
```

---

clearStoredNames      *Clears previously stored names*

---

**Description**

Beware that by clearing all stored names, you may inadvertently duplicate new shortnames

**Usage**

```
clearStoredNames(w = "all")
```

**Arguments**

w	what to clear
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**Value**

empty stores for chosen name

**Examples**

```
nametostore = "ujuo"  
storeChosenName(nametostore) #store the chosen name  
nameAlreadyExists(nametostore) #check if the chosen name now exists in store  
clearStoredNames("all") #clear storage of all names  
nameAlreadyExists(nametostore) #check if the chosen name now exists in store, it should not
```

discardShortcodes      *Discard shortcodes*

---

### Description

This will discard all shorthand functions created and delete them from stores as well. Good if you inadvertently shorthand a package.

### Usage

```
discardShortcodes(  
  pkg,  
  reflib = options()$.funCNamesPkgReference,  
  response = TRUE  
)
```

### Arguments

pkg	package name
reflib	reference library, preferrably leave unentered
response	TRUE or FALSE, return a response upon completion

### Value

unloads short function names

### Examples

```
pkgName = 'quickcode'  
shortenPkg(pkgName)  
discardShortcodes(pkgName)
```

---

hasSpecialCharacters      *Does string have special characters?*

---

### Description

Evaluates if a specified string contains special characters

### Usage

```
hasSpecialCharacters(string)
```

**Arguments**

string            The string to evaluate

**Value**

TRUE or FALSE

**Examples**

```
strToTest1 <- 'obi_%_good_^you'  
strToTest2 <- 'obigoodyou'  
hasSpecialCharacters(strToTest1)  
hasSpecialCharacters(strToTest2)
```

---

hasUpperCase	<i>Contains uppercase?</i>
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**Description**

Simply change if there is any uppercase letter in a string

**Usage**

```
hasUpperCase(string)
```

**Arguments**

string            the string to evaluate

**Value**

TRUE or FALSE if the string has an upper case letter

**Examples**

```
strToTest1 <- 'obiWentToSchool'  
strToTest2 <- 'obiwenttoschool'  
hasUpperCase(strToTest1)  
hasUpperCase(strToTest2)
```

---

help *Help for all functions*

---

**Description**

Access help for all functions including any newly created shorthand functions

**Usage**

```
help(functionName, package = NULL)
```

**Arguments**

functionName	function name to search for
package	package name containing the function. Leave unentered if this is a shorthand function

**Value**

Documentation for function

**Examples**

```
pkgname <- 'qpdf' #package name
shortenPkg(pkgname,TRUE) #shorten the package
index(pkgname) #index the package functions shortened
help('qpd.pl') #choose a function name and find help
```

---

index *Index a shortened package*

---

**Description**

This function will provide you the list of shorthand functions created for a package

**Usage**

```
index(pkg = stop("Enter a package name to index"))
```

**Arguments**

pkg	The package name
-----	------------------

**Value**

List of long and short forms of particular functions

**Examples**

```
if(interactive()){  
  pkgname <- 'qpdf'  
  shortenPkg(pkgname, TRUE)  
  index(pkgname)  
}
```

---

isUpperCase	<i>Is string uppercase?</i>
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---

**Description**

Simply, test if a string is uppercase and return TRUE or FALSE

**Usage**

```
isUpperCase(string)
```

**Arguments**

string	The string to evaluate
--------	------------------------

**Value**

TRUE or FALSE if the string is all upper case

**Examples**

```
strTest1 <- 'OBI'  
strTest2 <- 'obiO'  
isUpperCase(strTest1)  
isUpperCase(strTest2)
```

---

nameAlreadyExists      *Does name already exist in memory?*

---

### Description

Evaluates if a name has already been saved by the r2shortcode. Keep in mind that if you previously used the clear function, previously saved names will be cleared

### Usage

```
nameAlreadyExists(name)
```

### Arguments

name                    The name to lookup

### Value

TRUE or FALSE

### Examples

```
nameToCheck <- 'Obinna'
nameAlreadyExists(nameToCheck)
```

---

searchNameSaveName      *Search for the existence of a name and save if unavailable*

---

### Description

Carries out a search on the already used shorthand function names and if the new name does not exist, it saves it

### Usage

```
searchNameSaveName(withPrefix = NULL, strN.complete, withSuffix = NULL)
```

### Arguments

withPrefix            Provide the prefix to use for the function name, could use NULL  
strN.complete        Provide the function name to search for, and save if feasible  
withSuffix            Provide the suffix to use for the function name, could use NULL



**Value**

Concatenate of search and a boolean

**Examples**

```
nameToCheck <- 'ObiObianom'  
searchNameSaveName(strN.complete= nameToCheck)  
searchNameSaveName(strN.complete= nameToCheck)
```

---

shortenPkg

*Shorten the package*

---

**Description**

This will create shorthand functions for functions in a package. This function brings together most functions in this package.

**Usage**

```
shortenPkg(pkg, addPrefix = TRUE, silent = FALSE, num.prefix = 3)
```

**Arguments**

pkg	package name
addPrefix	should prefix be added to the new names, TRUE or FALSE. Prefix will by default be first 3 letters of the package name
silent	return messages at the end of evaluation, TRUE or FALSE
num.prefix	if you specify to addPrefix, how many letters will you like to add?

**Value**

short function names for all the functions in the package

**Examples**

```
pkg <- 'qpdf'  
shortenPkg(pkg, FALSE, TRUE)
```

storeChosenName      *Store chosen name in memory*

---

**Description**

When all else passes, store this particular name in memory

**Usage**

```
storeChosenName(name)
```

**Arguments**

name                  The chosen name to store

**Value**

store the chosen name in storage variable

**Examples**

```
nameStore <- 'ObiStore1'  
storeChosenName(nameStore)
```

---

whatis                  *Help for all functions*

---

**Description**

Access help for all functions including any newly created shorthand functions

**Usage**

```
whatis(functionName, package = NULL)
```

**Arguments**

functionName      function name to search for  
package            package name containing the function. Leave unentered if this is a shorthand function

**Value**

help for the particular function

**Examples**

```
pkgname <- 'qpdf' #package name
shortenPkg(pkgname,TRUE) #shorten the package
index(pkgname) #index the package functions shortened
whatis('qpdf.pl') #choose a function name and find help
```

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