

Package: pathlist (via r-universe)

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Type Package

Title Package Supporting the Work with File Paths

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Author Hauke Sonnenberg

Maintainer Hauke Sonnenberg <hauke.sonnenberg@gmx.de>

Description This package implements a S4 class pathlist that internally stores a vector of file paths (as, e.g. received with `dir()`) as a matrix of path segments. I found out that this is the most compact form to store the paths. The main feature of the class is the dollar function that allows to filter paths for the value of their top-level folder. Using the dollar operator subsequently you can easily narrow down the list of paths. The class implements functions `length()`, `head()`, `tail()`, `summary()`, and `show()`.

Imports kwb.file, kwb.utils, methods

Remotes github::kwb-r/kwb.file, github::kwb-r/kwb.utils

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Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

Suggests testthat

Repository <https://hsonne.r-universe.dev>

RemoteUrl <https://github.com/hsonne/pathlist>

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.DollarNames.pathlist *Provide Names for Autocomplete after Dollar*

Description

Provide Names for Autocomplete after Dollar

Usage

```
## S3 method for class 'pathlist'
.DollarNames(x, pattern)
```

Arguments

x	object
pattern	pattern matching possible completions

as.character,pathlist-method

Character Representation of a pathlist Object

Description

Character Representation of a pathlist Object

Usage

```
## S4 method for signature 'pathlist'  
as.character(x, relative = FALSE)
```

Arguments

x a pathlist object
relative if TRUE (the default is FALSE) the root is omitted from the paths

as.list,pathlist-method

List Representation of a pathlist Object

Description

List Representation of a pathlist Object

Usage

```
## S4 method for signature 'pathlist'  
as.list(x, relative = FALSE)
```

Arguments

x a pathlist object
relative if TRUE (the default is FALSE) the root is omitted from the paths

`as.matrix, pathlist-method`

Matrix Representation of a pathlist Object

Description

Matrix Representation of a pathlist Object

Usage

```
## S4 method for signature 'pathlist'  
as.matrix(x, relative = FALSE)
```

Arguments

`x` a pathlist object
`relative` if TRUE (the default is FALSE) the root is removed from the paths

`depth`

Get the File Path Depths

Description

Get the File Path Depths

Usage

```
depth(object)
```

Arguments

`object` object of class pathlist

depth,pathlist-method *Get the File Path Depths*

Description

Get the File Path Depths

Usage

```
## S4 method for signature 'pathlist'  
depth(object)
```

Arguments

object object of class pathlist

filename *Get the File Name Only*

Description

Get the File Name Only

Usage

```
filename(object)
```

Arguments

object object of class pathlist

filename,pathlist-method
Get the File Name Only

Description

Get the File Name Only

Usage

```
## S4 method for signature 'pathlist'  
filename(object)
```

Arguments

object object of class pathlist

folder *Get the File Name Only*

Description

Get the File Name Only

Usage

folder(object)

Arguments

object object of class pathlist

folder,pathlist-method
Get the Folder Path of all Folders Below the Top-Level

Description

Get the Folder Path of all Folders Below the Top-Level

Usage

```
## S4 method for signature 'pathlist'  
folder(object)
```

Arguments

object object of class pathlist

`guess_and_set_declared_encodings`*Guess and Set the Declared Encodings*

Description

Guess and Set the Declared Encodings

Usage

```
guess_and_set_declared_encodings(x)
```

Arguments

x vector of character

Examples

```
Encoding("\xe4")  
Encoding(guess_and_set_declared_encodings("\xe4"))
```

`head,pathlist-method` *First Paths in pathlist*

Description

First Paths in pathlist

Usage

```
## S4 method for signature 'pathlist'  
head(x, n = 6)
```

Arguments

x object of class pathlist
n number of paths

hide_server	<i>Hide the Server Name in the Root</i>
-------------	---

Description

Hide the Server Name in the Root

Usage

```
hide_server(object)
```

Arguments

object	object of class pathlist
--------	--------------------------

hide_server,pathlist-method	<i>Hide the Server Name in the Root</i>
-----------------------------	---

Description

Hide the Server Name in the Root

Usage

```
## S4 method for signature 'pathlist'
hide_server(object)
```

Arguments

object	object of class pathlist
--------	--------------------------

length,pathlist-method	<i>Number of Paths in pathlist</i>
------------------------	------------------------------------

Description

Number of Paths in pathlist

Usage

```
## S4 method for signature 'pathlist'
length(x)
```


Arguments

x object of class pathlist

pathlist-class *Class to Work with File Paths*

Description

This class simplifies the work with file paths. Paths are internally stored as a matrix of subfolders with one row per file and one column per path depth level. You can use the Dollar operator to filter for paths belonging to a certain top folder.

show,pathlist-method *Print a pathlist Object*

Description

Print a pathlist Object

Usage

```
## S4 method for signature 'pathlist'
show(object)
```

Arguments

object a pathlist object

summary,pathlist-method
 Print Path Summary

Description

This function prints a summary of a vector of file paths giving the common root of all paths, the number of paths, the maximum path depth, the number of paths within each depth and the names of the ten top level folders that are biggest in terms of number of contained files

Usage

```
## S4 method for signature 'pathlist'
summary(object)
```

Arguments

object object of class pathlist

tail,pathlist-method *Last Paths in pathlist*

Description

Last Paths in pathlist

Usage

```
## S4 method for signature 'pathlist'  
tail(x, n = 6)
```

Arguments

x	object of class pathlist
n	number of paths

toplevel *Get the Top-Level Folder*

Description

Get the Top-Level Folder

Usage

```
toplevel(object)
```

Arguments

object	object of class pathlist
--------	--------------------------

toplevel,pathlist-method
Get the Top-Level Folder

Description

Get the Top-Level Folder

Usage

```
## S4 method for signature 'pathlist'
toplevel(object)
```

Arguments

object object of class pathlist

[,pathlist-method *Filter Paths by Index*

Description

Filter Paths by Index

Usage

```
## S4 method for signature 'pathlist'
x[i]
```

Arguments

x object of class pathlist
i indices in the vector of paths

\$,pathlist-method *Filter Paths by Top Level Folder*

Description

Filter Paths by Top Level Folder

Usage

```
## S4 method for signature 'pathlist'  
x$name
```

Arguments

x	object of class pathlist
name	name of top level folder

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