

Package ‘pisar’

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Type Package

Title pisar: pISA-tree Support Functions

Version 0.1.0.9000

Description The package provides several functions for support and use of pISA-tree.

License GPL-3

URL <https://github.com/ablejec/pisar>

Encoding UTF-8

LazyData true

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Imports knitr, rio, tools

NeedsCompilation no

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fileName	<i>Extract file name</i>
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Description

Extract file name from a file path.

Usage

```
fileName(x, ...)
```

Arguments

x	complete file path or file.type name
...	any other arguments

Value

File name (string)

Note

Parameter ... is ignored at this time.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

See Also

[fileType](#)

Examples

```
fileName(".\\validation.Rnw")
fileName("./bla/validation.Rnw")
fileName("./validation.")
fileName("./validation")
```

fileType	<i>Extract file type</i>
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Description

Extract file type from a file path.

Usage

```
fileType(x, ...)
```

Arguments

x	complete file path or file name
...	any other arguments

Value

File type (string)

Note

Parameter ... is ignored at this time.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

Examples

```
fileName(".\\validation.Rnw")
fileName("./bla/validation.Rnw")
fileName("./validation.")
fileName("./validation")
```

fsummary

As factor summary of a data frame

Description

As factor summary of a data frame

Usage

```
fsummary(x, ...)
```

Arguments

x	data frame
...	any other arguments

Value

summary object

Note

Argument ... not used

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

Examples

```
fsummary(data.frame(x=rnorm(20),txt=sample(letters,20,rep=TRUE)))
```

getLayer	<i>Get pISA layer name</i>
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Description

Get pISA layer name

Usage

```
getLayer(x, path = getwd())
```

Arguments

x	layer character (one of p, I, S, or A)
path,	deafaults to working directory

Value

character string with layer name

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

Examples

```
astring <- "_p_Demo/_I_Test/_S_Show/_A_Work-R/other"
oldwd <- setwd(system.file("extdata",astring,package="pisar"))
oldwd
.pname <- getLayer("p")
.pname
getLayer("I")
getLayer("S")
getLayer("A")
```

getMeta	<i>Get metadata value</i>
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Description

Get metadata value

Usage

```
getMeta(x, item, nl = TRUE)
```

Arguments

x	two column character data frame with Key / Value pairs
item	string, item name
nl	logical, expand backslash character for new lines
...	any other arguments (not used at the moment)

Value

character string with key value

Note

Parameter item is matched exactly to the item names.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

Examples

```
astring <- "_p_Demo/_I_Test/_S_Show/_A_Work-R/other"
oldwd <- setwd(system.file("extdata",astring,package="pisar"))
oldwd
.iroot <- getRoot("I")
.idesc <- readMeta(.iroot)
getMeta(.idesc, "Description")
setwd(oldwd)
```

getRoot

Get root directory for pISA layer

Description

Get root directory for pISA layer

Usage

```
getRoot(x = "p", path = getwd(), ...)
```

Arguments

x	character characteristic for pISA layer
path	path within the pISA-tree
...	any other arguments

Value

data frame with Key/value pairs

Note

The path should be compliant with the pISA-tree structure. Path defaults to the working directory, which is usually in or below an assay. Argument ... is not used.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

Examples

```
getRoot("p", path="d:/_p_prj/_I_inv/_S_st/_A_asy/other/doc")
```

pisar	<i>pisar: pISA-tree support functions</i>
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Description

The package provides several functions for support and use of pISA-tree.

Usage

pISA-tree is a standardized directory tree for storing projet information under ISA paradigm. The set of functions have two fold purpose: 1. To enable use of metadata for reproducible documents 2. To enable automated upload to external repository (FAIRDOMhub).

print.pISAMeta	<i>Print metadata object as Dlist</i>
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Description

Print metadata object as Dlist

Usage

```
## S3 method for class 'pISAMeta'
print(x, ...)
```

Arguments

x	metadata object, data.frame with two columns
...	any other arguments

Note

Metadata table is printed in convenient Dlist form.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

Examples

```
.pISALoc <- system.file("extdata", "_p_Demo", package="pisar")
readMeta(.pISALoc)
```

readMeta	<i>Read metadata file from the given directory</i>
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Description

Read metadata file from the given directory

Usage

```
readMeta(x = ".", ...)
```

Arguments

x	file path to the pISA layer
...	any other arguments

Value

data frame with Key/value pairs with class 'pISAMeta'

Note

Metadata table gets the class 'Dlist' to inherit a convenient print.

Author(s)

Andrej Blejec <andrej.blejec@nib.si>

Examples

```
astring <- "_p_Demo/_I_Test/_S_Show/_A_Work-R/other"
oldwd <- setwd(system.file("extdata",astring,package="pisar"))
oldwd
.aroot <- getRoot("A")
.ameta <- readMeta(.aroot)
.ameta
setwd(oldwd)
```

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