Package 'jmvcore'

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Analysis

the jmvcore Object classes

Description

the jmvcore Object classes

Usage

Analysis

Array

Column

Group

Html

Image

canBeNumeric 3

Preformatted

State

Table

Format

An object of class R6ClassGenerator of length 25.

canBeNumeric

Determines whether an object is or can be converted to numeric

Description

Determines whether an object is or can be converted to numeric

Usage

```
canBeNumeric(object)
```

Arguments

object

the object

Cell.BEGIN_GROUP

Constants to specify formatting of Table cells

Description

Cell.BEGIN_GROUP adds spacing above a cell

Usage

```
Cell.END_GROUP
Cell.BEGIN_END_GROUP
```

Cell.BEGIN_GROUP

 ${\tt Cell.NEGATIVE}$

Cell.INDENTED

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Format

An object of class numeric of length 1.

Details

```
Cell.END_GROUP add spacing below a cell
Cell.BEGIN_END_GROUP add spacing above and below a cell
Cell.NEGATIVE specifies that the cells contents is negative
```

Examples

```
## Not run:
table$addFormat(rowNo=1, col=1, Cell.BEGIN_END_GROUP)
## End(Not run)
```

colorPalette

A function that creates a color palette

Description

A function that creates a color palette

Usage

```
colorPalette(n = 5, pal = "jmv", type = "fill")
```

Arguments

n Number of colors needed

pal Color palette name

type 'fill' or 'color'

Value

a vector of hex color codes

composeFormula 5

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COIII	$\omega \omega \omega \omega$	-10	ı ıııu	ша

Compose a formula string

Description

Compose a formula string

Usage

```
composeFormula(lht, rht)
```

Arguments

list of character vectors making up the leftrhtlist of character vectors making up the right

Value

a string representation of the formula

Examples

```
composeFormula(list('a', 'b', c('a', 'b')))
# ~a+b+a:b

composeFormula('f', list('a', 'b', c('a', 'b')))
# "f~a+b+a:b"

composeFormula('with spaces', list('a', 'b', c('a', 'b')))
'`with spaces`~a+b+a:b'
```

composeTerm

Compose and decompose interaction terms to and from their components

Description

Compose and decompose interaction terms to and from their components

6 constructFormula

Usage

```
composeTerm(components)
composeTerms(listOfComponents)
decomposeTerm(term)
decomposeTerms(terms)
```

Arguments

components a character vectors of components

listOfComponents

a list of character vectors of components

term a string with components separated with colons

terms a character vector of components separated with colons

Examples

```
composeTerm(c('a', 'b', 'c'))
# 'a:b:c'

composeTerm(c('a', 'b', 'with space'))
# 'a:b:\with space\''

decomposeTerm('a:b:c')
# c('a', 'b', 'c')

decomposeTerm('a:b:\with space\')
# c('a', 'b', 'with space')
```

construct Formula

Construct a formula string

Description

Construct a formula string

Usage

```
constructFormula(dep = NULL, terms)
```

Arguments

dep the name of the dependent variable

terms list of character vectors making up the terms

create 7

Value

a string representation of the formula

Examples

```
constructFormula(terms=list('a', 'b', c('a', 'b')))
# a+b+a:b

constructFormula('f', list('a', 'b', c('a', 'b')))
# "f~a+b+a:b"

constructFormula('with spaces', list('a', 'b', c('a', 'b')))
'`with spaces`~a+b+a:b'
```

create

Create an analysis

Description

Used internally by jamovi

Usage

```
create(ns, name, optionsPB, datasetId, analysisId, revision)
```

Arguments

revision

ns package name
name analysis name
optionsPB options protobuf object
datasetId dataset id
analysisId analysis id

revision

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createError

Create and throw errors

Description

These functions are convenience functions for creating and throwing errors.

Usage

```
createError(formats, code = NULL, ...)
reject(formats, code = NULL, ...)
```

Arguments

formats a format string which is passed to format

code an error code

... additional arguments passed to format

 ${\tt decompose} {\tt Formula}$

Decompose a formula

Description

Decompose a formula

Usage

```
decomposeFormula(formula)
```

Arguments

formula the formula to decompose

Value

a list of lists of the formulas components

enquo 9

enquo

rlang::enquo Simplifies things so packages overriding Analysis don't need to have rlang in their imports. This is intended for use by classes overriding Analysis

Description

rlang::enquo Simplifies things so packages overriding Analysis don't need to have rlang in their imports. This is intended for use by classes overriding Analysis

Usage

```
enquo(arg)
```

Arguments

arg

the argument to enquote

Value

the quosure

extractErrorMessage

Extracts the error message from an error object

Description

Extracts the error message from an error object

Usage

```
extractErrorMessage(error)
```

Arguments

error

an error object

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format

Format a string with arguments

Description

Substitutes the arguments into the argument str. See the examples below.

Usage

```
format(str, ..., context = "normal")
```

Arguments

str the format string

... the arguments to substitute into the string

context 'normal' or 'R'

Value

the resultant string

Examples

```
jmvcore::format('the {} was delish', 'fish')

# 'the fish was delish'
jmvcore::format('the {} was more delish than the {}', 'fish', 'cow')

# 'the fish was more delish than the cow'
jmvcore::format('the {1} was more delish than the {0}', 'fish', 'cow')

# 'the cow was more delish than the fish'
jmvcore::format('the {what} and the {which}', which='fish', what='cow')

# 'the cow and the fish'
jmvcore::format('that is simply not {}', TRUE)

# 'that is simply not true'
jmvcore::format('that is simply not {}', TRUE, context='R')

# 'that is simply not TRUE'
```

isError 11

isError

Determine if an object is an error

Description

Determine if an object is an error

Usage

```
isError(object)
```

Arguments

object

the object to test

Value

TRUE if the object is an error

marshalData

Marshal the data from an environment into a data frame

Description

Marshal the data from an environment into a data frame

Usage

```
marshalData(env, ...)
```

Arguments

env the environment to marshal from

... the variables to marshal

Value

a data frame

12 matchSet

marshalFormula	Marshal a formula into options
----------------	--------------------------------

Description

Marshal a formula into options

Usage

```
marshalFormula(formula, data, from = "rhs", type = "vars",
 permitted = c("numeric", "factor"), subset = ":", required = FALSE)
```

Arguments

formula

rouments			

data a data frame to marshal the data from

the formula

'rhs' or 'lhs', which side of the formula should be marshalled from

Determines the index where an item appears

'vars' or 'terms', the type of the option be marshalled to type

permitted the types of data the option permits a subset of the formula to marshal subset required whether this marshall is required or not

Description

matchSet

Determines the index where an item appears

Usage

```
matchSet(x, table)
```

Arguments

the item to find Χ table the object to search

Value

the index of where the item appears, or -1 if it isn't present

naOmit 13

naOmit

remove missing values from a data frame listwise

Description

removes all rows from the data frame which contain missing values (NA)

Usage

```
naOmit(object)
```

Arguments

object

the object to remove missing values from

Details

this function is equivalent to na.omit from the stats package, however it preserves attributes on columns in data frames

Options

The jmv Options classes

Description

The jmv Options classes

Usage

Options

OptionBool

OptionList

OptionNMXList

 ${\tt OptionVariables}$

OptionTerm

OptionVariable

OptionTerms

OptionInteger

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OptionNumber

OptionString

OptionLevel

OptionGroup

OptionSort

OptionArray

OptionPairs

Format

An object of class R6ClassGenerator of length 25.

resolveQuo

Evaluates a quosure This is intended for use by classes overriding Analysis

Description

Evaluates a quosure This is intended for use by classes overriding Analysis

Usage

resolveQuo(quo)

Arguments

quo

the quosure to evaluate

Value

the value of the quosure

select 15

select

Create a new data frame with only the selected columns

Description

Shorthand equivalent to subset(df, select=columnNames), however it additionally preserves attributes on the columns

Usage

```
select(df, columnNames)
```

Arguments

df the data frame

columnNames the names of the columns to make up the new data frame

Value

the new data frame

sourcify

Converts basic R object into their source representation

Description

Converts basic R object into their source representation

Usage

```
sourcify(object, indent = "")
```

Arguments

object the object to convert to source indent the level of indentation to use

Value

a string of the equivalent source code

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Examples

```
sourcify(NULL)
# 'NULL'
sourcify(c(1,2,3))
# 'c(1,2,3)'

1 <- list(a=7)
1[['b']] <- 3
1[['c']] <- list(d=3, e=4)
sourcify(1)

# 'list(
# a=7,
# b=3,
# c=list(
# d=3,
# e=4))'</pre>
```

startsWith

Test whether strings start or end with a particular string

Description

```
Same as base::startsWith() and base::endsWith() except available for R < 3.3
```

Usage

```
startsWith(x, prefix)
endsWith(x, suffix)
```

Arguments

```
x a string to testprefix a string to test the presence ofsuffix a string to test the presence of
```

stringifyTerm 17

stringifyTerm

Converts a term into a string

Description

Converts a term (a vector of components) into a string for display purposes

Usage

```
stringifyTerm(components, sep = getOption("jmvTermSep", ":"),
  raise = FALSE)
```

Arguments

components a character vector of components

sep a separator to go between the components

raise whether duplicates should be raised to powers

Value

the components joined together into a string for disply

Examples

```
stringifyTerm(c('a', 'b', 'c'))
# "a:b:c"
stringifyTerm(c('a', 'b', 'c'), sep=' * ')
# "a * b * c"

options('jmvTermSep', ' * ')
stringifyTerm(c('a', 'b', 'c'))
# "a * b * c"

#' stringifyTerm(c('`quoted`', 'b', 'c'))
# "quoted * b * c"
```

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theme_default

Creates the default jmv ggplot2 theme

Description

Creates the default jmv ggplot2 theme

Usage

```
theme_default(base_size = 16, scale = "none", palette = "jmv")
```

Arguments

base_size Font size

scale 'none' or 'discrete'
palette Color palette name

Value

the default jmv ggplot2 theme

theme_hadley

Creates the hadley jmv ggplot2 theme

Description

Creates the hadley jmv ggplot2 theme

Usage

```
theme_hadley(base_size = 16, scale = "none", palette = "jmv")
```

Arguments

base_size Font size

scale 'none' or 'discrete'
palette Color palette name

Value

the hadley jmv ggplot2 theme

theme_min 19

 ${\tt theme_min}$

Creates the minimal jmv ggplot2 theme

Description

Creates the minimal jmv ggplot2 theme

Usage

```
theme_min(base_size = 16, scale = "none", palette = "jmv")
```

Arguments

base_size Font size

scale 'none' or 'discrete'
palette Color palette name

Value

the minimal jmv ggplot2 theme

theme_spss

Creates the spss jmv ggplot2 theme

Description

Creates the spss jmv ggplot2 theme

Usage

```
theme_spss(base_size = 16, scale = "none", palette = "jmv")
```

Arguments

base_size Font size

scale 'none' or 'discrete'
palette Color palette name

Value

the spss jmv ggplot2 theme

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toB64

Convert names to and from Base64 encoding

Description

Note: uses the . and _ characters rather than + and / allowing these to be used as variable names

Usage

```
toB64(names)
fromB64(names)
```

Arguments

names

the names to be converted base64

toNumeric

Converts a vector of values to numeric

Description

Similar to as.numeric, however if the object has a values attribute attached, these are used as the numeric values

Usage

```
toNumeric(object)
```

Arguments

object

the vector to convert

tryNaN 21

tryNaN

try an expression, and return NaN on failure

Description

if the expression fails, NaN is returned silently

Usage

tryNaN(expr)

Arguments

expr

an expression to evaluate

Value

the result, or NaN on failure

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