

Package ‘rmdHelpers’

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Type Package

Title Helper Functions for Rmd Documents

Version 1.2

Date 2016-07-11

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Description

A series of functions to aid in repeated tasks for Rmd documents. All details are to my personal preference, though I am happy to add flexibility if there are use cases I am missing. I will continue updating with new functions as I add utility functions for myself.

License GPL

Depends knitr, dplyr

NeedsCompilation no

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 rmdHelpers-package *Helper Functions for Rmd Documents*

Description

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Details

The DESCRIPTION file:

```

Package:      rmdHelpers
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Title:        Helper Functions for Rmd Documents
Version:      1.2
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Description:  A series of functions to aid in repeated tasks for Rmd documents. All details are to my personal preference, the
License:      GPL
Depends:      knitr, dplyr
  
```

Index of help topics:

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formatEffectTable  Format an effect table
formatP            Format p-value
myFrac            Print Fraction for markdown
myKable           Wrapper for kable
printList         Print nice lists
refNote           Generate a popup reference note
rmdHelpers-package Helper Functions for Rmd Documents
thisFileName       Identify current file
thisfile_knit      Identify the file currently being knitted
  
```

Basic functions that I use in multiple Rmd documents

Author(s)

Mark Peterson

Maintainer: Mark Peterson <mark.phillip.peterson@gmail.com>

formatEffectTable	<i>Format an effect table</i>
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Description

Performs general formatting of effect tables from ‘lm’ suitable for basic printing. This includes merging estimates and confidence intervals, rounding, and optionally improving the display of factor and logical columns (using a colon and space, instead of just concatenating them).

Usage

```
formatEffectTable(object
  , level = 0.95
  , estDigits = 2
  , pDigits = 4
  , cleanFactors = TRUE)
```

Arguments

object	A fitted model object from ‘lm’
level	The confidence level to be returned
estDigits	The number of digits to be displayed for the estimate and confidence thresholds
pDigits	The number of digits to be displayed for the p-values
cleanFactors	Logical. Should the parameter names for factors be cleaned by separating the parameter from the value with a colon and a space, or not. (This option may lead to issues with merging if set to ‘TRUE’.)

Value

A data.frame formatted ready to be displayed (e.g. by ‘kable’)

Note

Note that "NA" values are silently dropped (they are not returned by ‘summary.lm’ in the coefficients table).

Author(s)

Mark Peterson

Examples

```
irisMod <- lm(Sepal.Length ~ ., data = iris)
formatEffectTable(irisMod)
```

`formatP`*Format p-value*

Description

A wrapper to sensibly control the printing of p-values because I was frustrated with playing with round. Calls format instead now.

Usage

```
formatP(p, digits = 3, scientific = FALSE, ...)
```

Arguments

<code>p</code>	Numeric vector of values to be displayed
<code>digits</code>	Numeric of length one giving the number of digits to display. Note that if p is longer than 1, all returned values will be to the same level of precision.
<code>scientific</code>	Logical, should scientific notation be used?
<code>...</code>	Further arguments passed to format

Value

Character vector of the p-value(s) formatted

Author(s)

Mark Peterson

See Also

[format](#)

Examples

```
formatP(0.049865465646)
```

```
formatP(0.00000013212354)
```

```
formatP(c(0.01564643131, .0003456463131, .45643131564), 2)
```

myFrac	<i>Print Fraction for markdown</i>
--------	------------------------------------

Description

Converts fractions for inline rendering.

Usage

```
myFrac(num, denom, format = "markdown")
```

Arguments

num	Either a vector of values for the numerators, or, if denom is NULL, fractions using "/" as the separator (allows passing fractions directly, as from fractions)
denom	Vector of values for the denominators, or NULL (the default) if num is already formatted fractions.
format	Character vector of length one giving the format of the output. Default of "markdown" uses super script for the numerator, a slash, then subscript for the denominator. Alternatively, "latex" uses <code>\frac</code> and surrounds the fraction with <code>\$</code> to induce LaTeX conversion (via MathJax for html output)

Value

Character vector of the fractions

Note

If passing fractions, the function assumes that there is exactly one "/" in each fraction, and will return "NA" for the denominator if none is present or truncate the fraction if more than one "/" is included.

Author(s)

Mark Peterson

See Also

[fractions](#)

Examples

```
myFrac(3,4)
```

```
myFrac(1:3,4:6)
```

```
myFrac(1:3,4:6, "latex")
```

```
myFrac(letters[1:5], LETTERS[1:5])  
myFrac( c("1/2","3/4", "9856/5646") )  
myFrac( c("1/2","3/4", "9856/5646"), format = "latex" )
```

myKable

Wrapper for kable

Description

A small wrapper for the knitr kable function to allow automated bolding of row and/or column names. Additional functionality may be added/

Usage

```
myKable(x, row.names = NA, boldRowNames = TRUE, boldColNames = TRUE, ...)
```

Arguments

x	Table or matrix to be passed to kable
row.names	Logical: should row names be included? Defaults to NULL which includes row names if they are not just numeric in order.
boldRowNames	Logical: should row names be bolded?
boldColNames	Logical: should column names be bolded?
...	Additional arguments to be passed to kable

Details

Currently bolds in markdown format, so needs to be passed through interpreter after running.

Value

A formatted table from kable

Author(s)

Mark Peterson

See Also

[kable](#)

Examples

```
tempTable <- matrix(LETTERS[6:20], nrow = 5)
colnames(tempTable) <- LETTERS[24:26]
row.names(tempTable) <- LETTERS[1:5]
myKable(tempTable)

myKable(tempTable, boldColNames = FALSE)
```

printList

Print nice lists

Description

Generate a list formatted for printing from a vector.

Usage

```
printList(toPrint = letters[1:3], finalSepWord = "and", midSep = ",")
```

Arguments

toPrint	Vector that you want to turn into a text list.
finalSepWord	The last word to include, defaults to "and" but could be "or" or similar
midSep	Separator between items, defaults to ","

Details

Note that this function includes an Oxford comma.

Value

Character vector of length 1 with the values of toPrint concatenated and separated as specified in the text.

Author(s)

Mark Peterson

Examples

```
printList()

printList(LETTERS[1:5])

printList(letters[1:5], "or", ";")
```

refNote	<i>Generate a popup reference note</i>
---------	--

Description

Generates the html needed to include a popup reference note. Note requires inclusion of javascript libraries for this to function.

Usage

```
refNote(text = "This is a test note", number = "*")
```

Arguments

text	Note to include in popup. Line breaks occasionally cause problems. As this is generally for short notes; I have not come up with a general solution yet. If your note text is complicated, ensure that you check the result.
number	The label to identify the note in the text.

Value

The html for the popup note

Note

The html page also needs to include the javascript and css to process the notes for these to work. Specifically, need to include the following (generally in the header):

```
<!-- The javascript to run the popup refernce notes -->
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.10.1/jquery.min.js"></script>
<script>
  jQuery.noConflict();
  jQuery(function() {
    jQuery(".refbody").hide();
    jQuery(".refnum").click(function(event) {
      jQuery(this.nextSibling).toggle();
      event.stopPropagation();
    });
    jQuery("body").click(function(event) {
      jQuery(".refbody").hide();
    });
  });
</script>
```

And the following to wherever you include you css definitions:


```
/* the reference tooltips style starts here */
/* This was stolen from the What If? css sytle sheet
 * at https://what-if.xkcd.com/css/style.css
 * in an effort to emulate that style */

.ref {
    position: relative;
    vertical-align: baseline;
}

.refnum {
    position: relative;
    left: 2px;
    bottom: 1ex;
    font-family: Verdana, sans-serif;
    color: #005994;
    font-size: .7em;
    font-weight: bold;
    text-decoration: underline;
    cursor: pointer;
}

.refbody {
    font-family: Verdana, sans-serif;
    font-size: .7em;
    line-height: 1.1;
    display: block;
    min-width: 20em;
    position: absolute;
    left: 25px;
    bottom: 5px ;
    border: 1px solid;
    padding: 5px;
    background-color: #fff;
    word-wrap: break-word;
    z-index: 9999;
    overflow: auto;
}
```

Author(s)

Mark Peterson

References

This was based on the popups on the <https://what-if.xkcd.com/> site

Examples

```
cat(refNote())  
  
cat(refNote("Any text can go in here", 42))
```

<code>thisFileName</code>	<i>Identify current file</i>
---------------------------	------------------------------

Description

Identify the file currently being processed

Usage

```
thisFileName()
```

Details

Currently only works for files being processed with `knit`; may try to add more

Value

The current file name

References

Based on <https://github.com/krlmlr/kimisc/blob/master/R/thisfile.R>

See Also

[thisfile_knit](#)

Examples

```
thisFileName()
```

thisfile_knit	<i>Identify the file currently being knitted</i>
---------------	--

Description

Identifies the file that knitr is processing when the function is called.

Usage

```
thisfile_knit()
```

Value

Returns the current file name

Author(s)

Mark Peterson

References

Based on <https://github.com/krlmlr/kimisc/blob/master/R/thisfile.R>

See Also

[thisFileName](#)

Examples

```
thisfile_knit()
```

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