# Package ‘rmdHelpers’

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**Title** Helper Functions for Rmd Documents  
**Version** 1.2  
**Date** 2016-07-11  
**Author** Mark Peterson  
**Maintainer** Mark Peterson &lt;mark.phillip.peterson@gmail.com&gt;  
**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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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.

Details

The DESCRIPTION file:

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Depends:  knitr, dplyr

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myFrac  Print Fraction for markdown
myKable  Wrapper for kable
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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

Format an effect table

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)
Description

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

Usage

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

Arguments

- `p`  
  Numeric vector of values to be displayed
- `digits`  
  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.
- `scientific`  
  Logical, should scientific notation be used?
- `...`  
  Further arguments passed to `format`

Value

Character vector of the p-value(s) formatted

Author(s)

Mark Peterson

See Also

`format`

Examples

```r
formatP(0.049865465646)
formatP(0.00000013212354)
formatP(c(0.01564643131,.0003456463131, .45643131564), 2)
```
myFrac

**Print Fraction for markdown**

---

**Description**

Converts fractions for inline rendering.

**Usage**

```r
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 \frac and surrounds the fraction with $ 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**

```r
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
printList

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

Generate a popup reference note

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 style 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))

---

thisFileName | Identify current file

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


See Also

thisfile_knit

Examples

thisFileName()
thisfile_knit

Identify the file currently being knitted

**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**


**See Also**

thisFileName

**Examples**

thisfile_knit()
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