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Type Package

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Description Tools for RMarkdown

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adapt.hf.blocks	<i>Adapt header and footer of if blocks for output format and parse already the if condition for faster runtime evaluation</i>
-----------------	--

Description

Adapt header and footer of if blocks for output format and parse already the if condition for faster runtime evaluation

Usage

```
adapt.hf.blocks(txt, block.df = NULL, out.type = "html",
  only.types = c("if", "note"), ...)
```

adapt.if.blocks	<i>Adapt header and footer of if blocks for output format and parse already the if condition for faster runtime evaluation</i>
-----------------	--

Description

Adapt header and footer of if blocks for output format and parse already the if condition for faster runtime evaluation

Usage

```
adapt.if.blocks(txt, block.df = NULL, out.type = "html",
  only.types = "if", ...)
```

add.code.ui *Add code button with div to an ui*

Description

Add code button with div to an ui

Usage

```
add.code.ui(ui = NULL, code, show_code, code.highlight = TRUE)
```

args.to.chunk.header *Create a Rmd chunk header line from a list of arguments*

Description

Create a Rmd chunk header line from a list of arguments

Usage

```
args.to.chunk.header(args = list(), type = "r", label = args$label)
```

cat.rmd.params *Scan all used block and whisker parameters in an .rmd file and create a template for a list*

Description

Scan all used block and whisker parameters in an .rmd file and create a template for a list

Usage

```
cat.rmd.params(file = NULL, text = readLines(file, warn = FALSE),
  use.blocks = TRUE, use.whiskers = TRUE)
```

cat.whisker.params *cat.whisker params*

Description

cat.whisker params

Usage

```
cat.whisker.params(file = NULL, text = readLines(file, warn = FALSE))
```

`chunk.opt.string.to.list`*Translates a chunk header to a list of its option*

Description

Translates a chunk header to a list of its option

Usage

```
chunk.opt.string.to.list(str, keep.name = FALSE)
```

Arguments

<code>str</code>	the chunk header as written in the rmd file
<code>keep.name</code>	shall the chunk name be kept?

`compile.rmd`*Main function to compile rmd to html*

Description

Main function to compile rmd to html

Usage

```
compile.rmd(file = NULL, text = readLines(file, warn = FALSE),
  envir = list(), if.blocks = c("ph", "render", "ignore")[1],
  blocks = c("ph", "render", "ignore")[1], whiskers = c("ph", "render",
  "render.as.text", "ignore")[1], chunks = c("ph", "knit", "render",
  "ignore")[1], start.line = "<!-- START -->", end.line = "<!-- END -->",
  set.utf8 = TRUE, out.type = "html", fragment.only = FALSE,
  whiskers.call.list = NULL, blocks.call.list = NULL, add.info = TRUE,
  use.commonmark = FALSE)
```

```
eval.chunk.like.whisker
```

Render a knitr chunk in the same way as a whisker (taking into some chunk options, like results="asis")

Description

Render a knitr chunk in the same way as a whisker (taking into some chunk options, like results="asis")

Usage

```
eval.chunk.like.whisker(code, call = NULL, options = NULL,
  env = parent.frame())
```

```
eval.chunks.in.text
```

Render all knitr chunks in the same way as a whisker (taking into some chunk options, like results="asis")

Description

Render all knitr chunks in the same way as a whisker (taking into some chunk options, like results="asis")

Usage

```
eval.chunks.in.text(rmd, envir = parent.frame())
```

```
eval.placeholder
```

Evaluate a placeholder and return its value

Description

Evaluate a placeholder and return its value

Usage

```
eval.placeholder(ph, envir = parent.frame(), chunks = "knit",
  dir = getwd(), out.type = "html", cr = NULL, on.error = c("null",
  "error", "stop")[1], use.commonmark = TRUE, ...)
```

eval.placeholders *Evaluate placeholders in compiled rmd*

Description

Evaluate placeholders in compiled rmd

Usage

```
eval.placeholders(cr = NULL, envir = parent.frame(), ph = cr$ph,  
  type = NULL, on.error = c("null", "error", "stop")[1],  
  out.type = first.none.null(cr$out.type, "html"), ...)
```

eval.rmd.blocks.in.text
 compile all given types of rmd blocks

Description

compile all given types of rmd blocks

Usage

```
eval.rmd.blocks.in.text(txt, to = "html", envir = parent.frame(),  
  call.list = NULL, block.df = NULL, only.types = NULL,  
  ignore.types = "if", use.del.rows.na = FALSE, replace.funs = NULL)
```

eval.whiskers.in.text *evaluate whiskers and replace them in the text*

Description

evaluate whiskers and replace them in the text

Usage

```
eval.whiskers.in.text(str, envir = parent.frame(),  
  signif = getOption("whiskerSignifDigits"),  
  round = getOption("whiskerRoundDigits"), add.params = TRUE,  
  whiskers.call.list = NULL)
```

find.dot.blocks	<i>Find blocks that have only a starting line of the form</i>
-----------------	---

Description

#. type arguments

Usage

```
find.dot.blocks(txt, dot.levels = NULL, dot.start = "#. ")
```

find.rmd.blocks	<i>Find all rmd blocks that start with a line '#< ...' and end with a line '#>'</i>
-----------------	---

Description

Find all rmd blocks that start with a line '#< ...' and end with a line '#>'

Usage

```
find.rmd.blocks(txt)
```

Arguments

txt	the rmd code, separated into lines
-----	------------------------------------

Value

A data.frame with the columns start, end, type, arg.str or NULL if no block was found

find.rmd.chunks	<i>Find the start and end lines of all rmd chunks</i>
-----------------	---

Description

Find the start and end lines of all rmd chunks

Usage

```
find.rmd.chunks(rmd, add.code = FALSE)
```

Arguments

rmd	the rmd code as character vector, one element per line
-----	--

find.rmd.nested	<i>find blocks, chunks and dot blocks and add nesting info</i>
-----------------	--

Description

find blocks, chunks and dot blocks and add nesting info

Usage

```
find.rmd.nested(txt, dot.levels = NULL)
```

Arguments

txt	the rmd source as character vector, each line one element
dot.levels	a list that describes the level of dot block types

Value

a data.frame

get.levels.parents	<i>Find the parent index of each row given a vector levels that describes the nestedness</i>
--------------------	--

Description

Find the parent index of each row given a vector levels that describes the nestedness

Usage

```
get.levels.parents(levels, is.parent.type = NULL)
```

Arguments

levels	integer vector of levels must start with lowest level and increase by 1 or decrease to an integer number
is.parent.type	NULL or a optional boolean vector of those rows that are of a type for which children shall be found.

Value

a vector of parent indices or 0 for most outer levels

```
get.levels.parents.by.types
```

Find the parent index of each row given a vector levels that describes the nestedness

Description

Find the parent index of each row given a vector levels that describes the nestedness

Usage

```
get.levels.parents.by.types(levels, types,
  parent.types = setdiff(unique(types), c(NA)))
```

Arguments

levels	integer vector of levels must start with lowest level and increase by 1 or decrease to an integer number
types	character vector of types
parent.types	the parent.types that shall be characterized

Value

a matrix of parent type indices with length(levels) rows and length(parent.types) columns. If there is no parent type, we enter a 0.

```
get.start.end.levels
```

Find the levels given ordered start and end positions of possible nested blocks

Description

Find the levels given ordered start and end positions of possible nested blocks

Usage

```
get.start.end.levels(start, end, start.level = 1L)
```

Arguments

start	vector of start positions of the blocks
end	vector of end positions of the blocks
start.level	the initial level

Value

a vector of levels of each blocks, more deeply nested blocks have higher levels

get.types.inds	<i>Gets for each element the index of its type</i>
----------------	--

Description

Gets for each element the index of its type

Usage

```
get.types.inds(types)
```

Arguments

types	a character vector of types
-------	-----------------------------

hideShowButton	<i>A button that toogles whether content in a div is displayed or not</i>
----------------	---

Description

A button that toogles whether content in a div is displayed or not

Usage

```
hideShowButton(id, label, content = NULL, div.id = NULL, shown = FALSE,
...)
```

html.table	<i>own function to print a compact html table from a data frame with option to select row</i>
------------	---

Description

own function to print a compact html table from a data frame with option to select row

Usage

```
html.table(df, sel.row = NULL, col.names = TRUE, row.names = FALSE,
border = TRUE, bg.color = c("#dddddd", "#ffffff"), font.size = "80%",
round.digits = 8, signif.digits = 8, col.tooltips = NULL, ...)
```

html.template *Variant of htmltools::htmlTemplate*

Description

Variant of htmltools::htmlTemplate

Usage

```
html.template(file = NULL, html = NULL, envir = parent.frame(),
              document_ = "auto")
```

import.yaml *A more convenient yaml importer*

Description

A more convenient yaml importer

Usage

```
import.yaml(file = NULL, text = NULL, verbose = FALSE,
            keep.quotes = FALSE, quote.char = "__QUOTE__", catch.error = TRUE,
            check.by.row = FALSE, utf8 = TRUE)
```

inline.dependencies *Inline dependencies with local file references*

Description

Inline dependencies with local file references

Usage

```
inline.dependencies(deps, mustWork = TRUE)
```

inline.dependency	<i>Inline a dependency with local file references</i>
-------------------	---

Description

Inline a dependency with local file references

Usage

```
inline.dependency(dependency, mustWork = TRUE)
```

knit.chunk	<i>Knits the rmd txt inside a temporary directory instead of the current wd</i>
------------	---

Description

Does not create /figure subfolder in current wd

Usage

```
knit.chunk(text, envir = parent.frame(), fragment.only = TRUE,
  quiet = TRUE, encoding = getOption("encoding"), html.table = TRUE,
  out.type = "html", knit.dir = getwd(), use.commonmark = TRUE,
  deps.action = c("add", "ignore")[1], args = NULL, eval_mode = c("knit",
  "sculpt", "eval")[1], show_code = c("no", "note", "open_note", "note_after",
  "open_note_after", "before", "after")[1], code.highlight = use.commonmark,
  ...)
```

knit.rmd	<i>Knits the rmd txt</i>
----------	--------------------------

Description

Knits the rmd txt

Usage

```
knit.rmd(text, envir = parent.frame(), fragment.only = TRUE, quiet = TRUE,
  encoding = getOption("encoding"), html.table = TRUE, out.type = "html",
  use.commonmark = FALSE)
```

knit.rmd.in.temp	<i>Knits the rmd txt inside a temporary directory instead of the current wd</i>
------------------	---

Description

Does not create /figure subfolder in current wd

Usage

```
knit.rmd.in.temp(text, envir = parent.frame(), ...)
```

make.chunk.info	<i>Parse a n rmd chunk and store info in a list</i>
-----------------	---

Description

Parse a n rmd chunk and store info in a list

Usage

```
make.chunk.info(txt, id = NULL)
```

make.placeholder.info	<i>Make a info for a placeholder object</i>
-----------------------	---

Description

Make a info for a placeholder object

Usage

```
make.placeholder.info(txt, type, form)
```

make.whisker.info	<i>Parse a whisker and create meta info</i>
-------------------	---

Description

Parse a whisker and create meta info

Usage

```
make.whisker.info(txt, add.variables = FALSE)
```

mark_utf8	<i>Recursively encode strings in list as UTF-8</i>
-----------	--

Description

Recursively encode strings in list as UTF-8

Usage

```
mark_utf8(x)
```

md2html	<i>Own markdown to html converter that interfaces commonmark</i>
---------	--

Description

Own markdown to html converter that interfaces commonmark

Usage

```
md2html(text, fragment.only = TRUE, options = c("use_xhtml", "mathjax", if
(include.images) "base64_images" else NULL, "highlight_code"),
include.images = TRUE, smart = FALSE, use.commonmark = FALSE, ...)
```

Arguments

text	the variable containing the markdown text
fragment.only	only a fragment or should html headers be added
options	options to markdownToHTML. These are the default options without smarty-pants
smart	smart punctuation (relevant for commonmark)
use.commonmark	use commonmark instead of markdownToHTML (no mathjax and included images)...

Value

The created HTML as a string

normalize.id *Normalize an id to letters that are allowed*

Description

Normalize an id to letters that are allowed

Usage

```
normalize.id(str, allowed = c(letters, LETTERS, 0:9, "_"), subst = "_")
```

parse.arg.str *Parse an arg.str as list*

Description

Parse an arg.str as list

Usage

```
parse.arg.str(arg.str)
```

parse.block.args *Parse the name of an rmd block*

Description

Parse the name of an rmd block

Usage

```
parse.block.args(header, arg.str = NULL, add.type = TRUE, type = "",  
allow.unquoted.title = FALSE)
```

parse.chunk.args *Parse the name of a knitr chunk and its arguments*

Description

Parse the name of a knitr chunk and its arguments

Usage

```
parse.chunk.args(header, arg.str = NULL)
```

parse.chunk.names *Take a vector of chunk header lines and returns the chunk names*

Description

Take a vector of chunk header lines and returns the chunk names

Usage

```
parse.chunk.names(header)
```

Arguments

header the chunk headers

parse.hashdot.yaml *Parse a hashdot yaml string*

Description

Parse a hashdot yaml string

Usage

```
parse.hashdot.yaml(txt, hashdot = "#. ", ...)
```

paste.whiskers *Subtitutes whiskers and pastes string parts together*

Description

Unlike replace whiskers, returns a string vector if whiskers evaluate as vectors Cannot deal with nested whiskers

Usage

```
paste.whiskers(str, values = parent.frame(), eval = TRUE,
  signif.digits = NULL, error.val = "`Error`", empty.val = NULL,
  whisker.start = "{{", whisker.end = "}}", sep = "", collapse = NULL,
  return.list = FALSE)
```

```
print.yaml          Prints list read from a yaml file
```

Description

Prints list read from a yaml file

Usage

```
## S3 method for class 'yaml'
print(obj)
```

```
random.string      Create n random strings of length nchar each
```

Description

Create n random strings of length nchar each

Usage

```
random.string(n = 1, nchar = 14)
```

```
read.as.utf8       Read a text file and convert to UTF-8
```

Description

Read a text file and convert to UTF-8

Usage

```
read.as.utf8(file, sep.lines = TRUE)
```

```
read.yaml          Reads a yaml file and returns as a list
```

Description

Reads a yaml file and returns as a list

Usage

```
read.yaml(file = NULL, verbose = FALSE, keep.quotes = TRUE,
           quote.char = "__QUOTE__", text = NULL, catch.error = TRUE,
           check.by.row = FALSE, space.after.colon = FALSE, utf8 = TRUE)
```

readUtf8	<i>Read a text file that was saved in UTF-8 format</i>
----------	--

Description

Read a text file that was saved in UTF-8 format

Usage

```
readUtf8(file)
```

remove.quotes	<i>Remove quotes from strings</i>
---------------	-----------------------------------

Description

Remove quotes from strings

Usage

```
remove.quotes(str, quotes = c("'", "\""))
```

remove.rmd.chunks	<i>Removes the rmd chunks with the given chunk names from rmd code</i>
-------------------	--

Description

Removes the rmd chunks with the given chunk names from rmd code

Usage

```
remove.rmd.chunks(rmd, chunk.names)
```

Arguments

rmd	the rmd code as character vector, one element per line
chunk.names	the list of rmd chunks that shall be removed

render.compiled.rmd *Render a compiled rmd*

Description

Render a compiled rmd

Usage

```
render.compiled.rmd(cr = NULL, txt = cr$body, envir = parent.frame(),
  fragment.only = FALSE, chunks = c("knit", "eval")[1], out.type = if
  (is.null(cr$out.type)) "html" else cr$out.type, use.print = "none",
  overwrite.values = FALSE, on.error = "error", use.commonmark = TRUE)
```

render.deps.as.singletons.tags

*Render a list of dependencies as a list of singleton head tags TO DO:
Some dependencies may use local file names... Those dependencies
must be fully inlined...*

Description

Render a list of dependencies as a list of singleton head tags TO DO: Some dependencies may use local file names... Those dependencies must be fully inlined...

Usage

```
render.deps.as.singletons.tags(deps, inline.local.files = TRUE)
```

render.rmd.in.temp *Render with RMarkdown::render the rmd txt inside a temporary directory instead of the current wd*

Description

Does not create /figure subfolder in current wd

Usage

```
render.rmd.in.temp(text, envir = parent.frame(), quiet = TRUE, ...)
```

render.value	<i>Render a value in a format specified by out.type</i>
--------------	---

Description

Render a value in a format specified by out.type

Usage

```
render.value(val, out.type = "html", ...)
```

replace.if.blocks	<i>extract #< if blocks from a rmd txt</i>
-------------------	---

Description

extract #< if blocks from a rmd txt

Usage

```
replace.if.blocks(txt, envir = parent.frame(), call.list = NULL,
  block.df = NULL, warn.if.na = TRUE, del.rows.na = FALSE, if.df = NULL)
```

replace.whiskers	<i>replace whiskers using a list of values, with several options</i>
------------------	--

Description

replace whiskers using a list of values, with several options

Usage

```
replace.whiskers(str, values = parent.frame(), eval = TRUE,
  signif.digits = NULL, vector.return.first = use.print == "none",
  pos = NULL, error.val = "`Error`", empty.val = NULL,
  use.whisker.render = FALSE, whisker.start = "{{", whisker.end = "}}",
  use.print = c("none", "knit", "whisker")[1])
```

```
reverse.whisker.placeholders
```

Reverses whisker placeholders by their original whiskers

Description

May be useful if blocks evaluate whiskers themselves or after rmd to html transformation

Usage

```
reverse.whisker.placeholders(txt, ph = cr$ph, cr = NULL)
```

```
rmd.between.start.end.lines
```

Extract rmd txt between start.line and end.line tag

Description

Extract rmd txt between start.line and end.line tag

Usage

```
rmd.between.start.end.lines(txt, start.line = "<!-- START -->",
  end.line = "<!-- END -->", return.start.end = FALSE)
```

```
rmd.blocks.to.placeholders
```

Replace blocks with placeholders of the form id

Description

TODO: Need to deal with nested blocks: replace from inner to outer

Usage

```
rmd.blocks.to.placeholders(txt, block.df = NULL, whisker.prefix = "{{",
  whisker.postfix = "}}", del.rows.na = FALSE, ignore.types = NULL,
  only.types = NULL, add.info = TRUE, ...)
```

`rmd.chunks.to.placeholders`*Replace chunks with placeholders of the form id*

Description

Replace chunks with placeholders of the form id

Usage

```
rmd.chunks.to.placeholders(txt, whisker.prefix = "{{",  
  whisker.postfix = "}}", del.rows.na = FALSE, add.info = TRUE,  
  id = NULL)
```

`rmd.whiskers.to.placeholders`*Replace whiskers with placeholders of the form id*

Description

Replace whiskers with placeholders of the form id

Usage

```
rmd.whiskers.to.placeholders(txt, whisker.prefix = "{{",  
  whisker.postfix = "}}", add.info = TRUE)
```

`sc`*Like paste0 but returns an empty vector if some string is empty*

Description

Like paste0 but returns an empty vector if some string is empty

Usage

```
sc(..., sep = "", collapse = NULL)
```

simple.html.page	<i>A simple html page</i>
------------------	---------------------------

Description

A simple html page

Usage

```
simple.html.page(head, body)
```

split.by.line.start	<i>Splits a text vector into different blocks by a start line token</i>
---------------------	---

Description

Splits a text vector into different blocks by a start line token

Usage

```
## S3 method for class 'by.line.start'
split(txt, start.with = NULL, block.lines = NULL,
      add.start = TRUE, merge.lines = TRUE)
```

Value

a data frame

table.knit_print.data.frame	<i>knitr data.frame printer as nice HTML table with several options</i>
-----------------------------	---

Description

knitr data.frame printer as nice HTML table with several options

Usage

```
table.knit_print.data.frame(x, table.max.rows = 100, round.digits = 8,
  signif.digits = 8, html.data.frame = TRUE, show.col.tooltips = TRUE,
  col.tooltips = NULL, output = "html", options = NULL, ...)
```

view.html	<i>View an extended rmd file</i>
-----------	----------------------------------

Description

View an extended rmd file

Usage

```
view.html(file = NULL, text = if (!is.null(file)) readLines(file, warn = FALSE) else NULL, ui = NULL, browser = rstudio::viewer, dir = getwd())
```

view.rmd	<i>View an extended rmd file</i>
----------	----------------------------------

Description

View an extended rmd file

Usage

```
view.rmd(file = NULL, text = readLines(file, warn = FALSE),  
  envir = list(), start.line = "<!-- START -->",  
  end.line = "<!-- END -->", set.utf8 = TRUE, knit = !chunks.like.whisker,  
  chunks.like.whisker = FALSE, out.type = "shiny",  
  launch.browser = rstudio::viewer, use.commonmark = FALSE)
```

whisker_print	<i>Print a whisker object</i>
---------------	-------------------------------

Description

Print a whisker object

Usage

```
whisker_print(x, ...)
```

`whisker_print.default` *Need to implement different methods*

Description

Need to implement different methods

Usage

```
## Default S3 method:  
whisker_print(x, ...)
```

`writeUtf8` *Write text file in UTF-8 format*

Description

Write text file in UTF-8 format

Usage

```
writeUtf8(x, file, bom = F)
```

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