Package: yamlme (via r-universe)

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Encoding UTF-8

Title Writing 'YAML' Headers for 'R-Markdown' Documents

Depends R(>= 4.2)

Imports methods, rmarkdown, tools, yaml

Suggests knitr, testthat (>= 3.0.0)

Description Setting layout through 'YAML' headers in 'R-Markdown' documents, enabling their automatic generation. Functions and methods may summarize 'R' objects in automatic reports, for instance check-lists and further reports applied to the packages 'taxlist' and 'vegtable'.

SystemRequirements pandoc (>= 1.14) - http://pandoc.org

Roxygen list(markdown = TRUE)

License GPL (>= 2)

URL https://github.com/kamapu/yamlme, https://kamapu.github.io/rpkg/yamlme/, https://kamapu.github.io/yamlme/

BugReports https://github.com/kamapu/yamlme/issues

VignetteBuilder knitr

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Collate 'imports.R' 'classes.R' 'as.R' 'print.R' 'read_rmd.R' 'render_rmd.R' 'update.R' 'write_rmd.R'

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`coerce-methods` *Coercing lists and rmd_doc objects*

Description

Coercion of lists into rmd_doc objects and vice versa.

Objects of class rmd_doc can be created from lists or converted back to lists. This is convenient for defining functions that manipulate the content of such objects.

Usage

```
list2rmd_doc(object)

rmd_doc2list(object)
```

Arguments

`object`	Either a list or a rmd_doc object.

Examples

```
## Create a document from a list
my_document <- list(
    title = "Sample Document",
    author = "Miguel Alavarez",
    output = "html_document",
    body = txt_body(
        "# Intro",
        "",
        "This is just an example."
    ))
my_document <- as(my_document, "rmd_doc")

## Convert back to a list
my_document <- as(my_document, "list")
```

print *Print Method for rmd_doc*

Description

Quick display for rmd_doc objects. This method also defines the way how objects are displayed in the console.

Usage

```
## S3 method for class 'rmd_doc'
print(x, maxlines = 10, ...)
```

Arguments

x	An object of class rmd_doc.
maxlines	An integer value indicating the number of lines used for the display. Longer documents will be truncated.
...	Further arguments passed among methods (not yet in use).

Value

A display of the resulting R-Markdown document in the console.

Examples

```
## Document without header
my_document <- read_rmd(
  file = file.path(path.package("yamlme"), "taxlistjourney.Rmd"),
  skip_head = TRUE
)
my_document

## Add header using update
my_document <- update(my_document,
  title = "A journey in rOpenSci",
  author = "Miguel Alvarez",
  output = "html_document"
)
my_document

## Header only
my_document$body <- NULL
my_document
```

read_rmd *Read R-markdown Documents*

Description

Import Rmd files into objects of class rmd_doc.

The function `txt_body()` add a line break at the end of each element of a character vector considering them as single lines.

Note that comments will be deleted in the input file.

Usage

```
read_rmd(file, ..., skip_head = FALSE)

txt_body(...)
```

Arguments

`file`	Character value indicating the path and the name to the Rmd file.
`...`	Arguments passed by `read_rmd()` to `readLines()`. In `txt_body()` they are character values passed to `c()`.
`skip_head`	Logical value indicating whether the yaml head should be skip or not (this argument is not used at the moment).

Value

The function `read_rmd()` returns a rmd_doc object. The function `txt_body()`, a character vector suitable for the parameter body in the function `write_rmd()`.

Examples

```
## Not run:
## Read pre-installed example
ex_document <- read_rmd(file.path(
  path.package("yamlme"),
  "taxlistjourney.Rmd"
))

## End(Not run)
```

render_rmd *Render documents from object*

Description

This function is a wrapper of `rmarkdown::render()` and will also work with file names but also enables the possibility of rendering from objects created by `write_rmd()`.

Usage

```
render_rmd(input, ...)

## S3 method for class 'character'
render_rmd(input, ...)

## S3 method for class 'rmd_doc'
render_rmd(input, output_file, delete_rmd = TRUE, ...)
```

Arguments

input	Either a character value indicating the path and the name of the r-markdown file, or an object of class rmd_doc, written by `write_rmd()`.
...	Further parameters passed to `rmarkdown::render()`.
output_file	A character value indicating the name of the output file. This argument is passed to `rmarkdown::render()`. Note that the argument only contains the name of the file without extension and can only be written at the working directory.
delete_rmd	A logical value idicating whether the temporary Rmd file should be deleted or not. If not, the file gets the same name as the rendered file.

Examples

```
## Not run:
## copy example to your working directory
filename <- "taxlistjourney.Rmd"
file.copy(from = file.path(path.package("yamlme"), filename), to = filename)

## Render the file with rmarkdown::render()
render_rmd(filename, output_file = "example")
browseURL("example.html")

## Render the file with yamlme
text_document <- read_rmd(filename)

text_document <- update(text_document,
  title = "my title", author = "my name",
  output = "html_document"
)
```

```
render_rmd(text_document, output_file = "example2")
browseURL("example2.html")

## End(Not run)
```

`rmd_doc-class` *R-markdown document*

Description

An S3 class for rmarkdown documents iheriting properties from lists. Header settings are a list at `object$header`, while content in markdown is a character vector at `object$body`.

`update` *Update an rmd_doc*

Description

Alternative to modify settings and content in `rmd_doc` objects. Note that to skip some elements of the YAML header, you can set the argument NULL to the respective parameter.

Usage

```
## S3 method for class 'rmd_doc'
update(object, ...)
```

Arguments

`object`	An object of class `rmd_doc`.
`...`	Named arguments to be inserted in the YAML header (passed to `write_rmd()`).

Examples

```
## Create a document from a list
my_document <- list(
    title = "Sample Document",
    author = "Miguel Alavarez",
    output = "html_document",
    body = txt_body(
        "# Intro",
        "",
        "This is just an example."
    ))
my_document <- as(my_document, "rmd_doc")
my_document
```

```
## Change output format
my_document <- update(my_document, output = "pdf_document")
my_document
```

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write_rmd *Writing R-Markdown Documents*

Description

This function generates R-Markdown documents by including the settings as arguments of the function. Comments and pieces of header can be also added through the argument append.

Usage

```
write_rmd(object, ...)

## S3 method for class 'rmd_doc'
write_rmd(object, filename, ...)
```

Arguments

object	rmd_doc object used to write an Rmarkdown file. If header is missing, write_rmd() will fail with an error message.
...	Further arguments passed among methods (not yet used).
filename	A character value with the name of the file to be written. It is not necessary to include the extension *.Rmd in this argument. If missing, the function will use the name of the input object.

Value

A character vector of class rmd_doc and, if argument set for parameter filename, an Rmd file.

Examples

```
## Not run:
my_document <- list(
  title = "Sample Document",
  author = "Miguel Alavarez",
  output = "html_document",
  body = txt_body(
    "# Intro",
    "",
    "This is just an example."
  )
)
my_document <- as(my_document, "rmd_doc")
write_rmd(my_document, filename = file.path(tempdir(), "example"))

## End(Not run)
```

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