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Description Convert R Markdown documents into a variety of formats.

License GPL-3

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Contents

rmarkdown-package	3
all_output_formats	5
available_templates	6
beamer_presentation	6
compile_notebook	9
context_document	10
convert_ipynb	13
default_output_format	14
draft	15
find_external_resources	16
find_pandoc	17
github_document	18
html-dependencies	20
html_document	21
html_document_base	29
html_fragment	31
html_notebook	
html_notebook_metadata	35
html_notebook_output	36
html_vignette	37
includes	39
ioslides_presentation	40
knitr_options	
knitr_options_html	
knitr_options_pdf	49
knit_params_ask	
latex-dependencies	50
latex_dependency	
md_document	51
metadata	
odt_document	
output_format	
output_format_dependency	
output_metadata	59
paged_table	
pandoc_args	60
pandoc_available	
pandoc_citeproc_convert	62
pandoc convert	63
pandoc_exec	64
pandoc_options	64
pandoc_path_arg	66
pandoc_self_contained_html	66
pandoc_template	67
parse_html_notebook	67
pdf_document	68
*	

pkg_file_lua	71
powerpoint_presentation	72
publish_site	73
relative_to	74
render	75
render_delayed	78
render_site	
render_supporting_files	83
resolve_output_format	83
rmarkdown_format	
rmd_metadata	
rtf_document	86
run	87
shiny_prerendered_chunk	89
shiny_prerendered_clean	
site_resources	90
slidy_presentation	90
word_document	94
	96

Index

rmarkdown-package R Markdown Document Conversion

Description

Convert R Markdown documents into a variety of formats including HTML, MS Word, PDF, and Beamer.

Details

The **rmarkdown** package includes high level functions for converting to a variety of formats. For example:

render("input.Rmd", html_document())
render("input.Rmd", pdf_document())

You can also specify a plain markdown file in which case knitting will be bypassed:

render("input.md", html_document())

Additional options can be specified along with the output format:

```
render("input.Rmd", html_document(toc = TRUE))
render("input.Rmd", pdf_document(latex_engine = "lualatex"))
render("input.Rmd", beamer_presentation(incremental = TRUE))
```

You can also include arbitrary pandoc command line arguments along with the other options:

render("input.Rmd", pdf_document(toc = TRUE, pandoc_args = "--listings"))

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4

all_output_formats

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See Also

render, html_document, pdf_document, word_document, beamer_presentation

all_output_formats Determine all output formats for an R Markdown document

Description

Read the YAML metadata (and any common output YAML file) for the document and return the output formats that will be generated by a call to render.

Usage

```
all_output_formats(input, output_yaml = NULL)
```

Arguments

input	Input file (Rmd or plain markdown)
output_yaml	Paths to YAML files specifying output formats and their configurations. The first
	existing one is used. If none are found, then the function searches YAML files
	specified to the output_yaml top-level parameter in the YAML front matter,
	_output.yml or _output.yaml, and then uses the first existing one.

Details

This function is useful for front-end tools that require additional knowledge of the output to be produced by render (e.g. to customize the preview experience).

Value

A character vector with the names of all output formats.

available_templates List available R Markdown template in a package

Description

List the available template by name that can be used with draft() to create a new document for R Markdown from a package.

Usage

available_templates(package = "rmarkdown", full_path = FALSE)

Arguments

package	Package to list template from. Default to rmarkdown
full_path	Set to TRUE to get the full path to the available templates

Value

A character vector of templates name to use within draft(). If full_path = TRUE, it returns the full path to the templates.

Examples

```
# List rmarkdown templates & create a draft
available_templates()
```

```
# List rticles templates
available_templates("rticles")
```

beamer_presentation Convert to a Beamer presentation

Description

Format for converting from R Markdown to a Beamer presentation.

Usage

```
beamer_presentation(
  toc = FALSE,
  slide_level = NULL,
  number_sections = FALSE,
  incremental = FALSE,
  fig_width = 10,
  fig_height = 7,
```

```
fig_crop = "auto",
  fig_caption = TRUE,
 dev = "pdf",
 df_print = "default",
 theme = "default",
 colortheme = "default",
 fonttheme = "default",
 highlight = "default",
  template = "default",
 keep_tex = FALSE,
 keep_md = FALSE,
 latex_engine = "pdflatex",
 citation_package = c("default", "natbib", "biblatex"),
  self_contained = TRUE,
 includes = NULL,
 md_extensions = NULL,
 pandoc_args = NULL,
 extra_dependencies = NULL
)
```

Arguments

toc	TRUE to include a table of contents in the output (only level 1 headers will be included in the table of contents).
slide_level	The heading level which defines individual slides. By default this is the highest header level in the hierarchy that is followed immediately by content, and not another header, somewhere in the document. This default can be overridden by specifying an explicit slide_level.
number_section	S
	TRUE to number section headings
incremental	TRUE to render slide bullets incrementally. Note that if you want to reverse the default incremental behavior for an individual bullet you can precede it with >. For example: > - Bullet Text. See more in Pandoc's Manual
fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_crop	Whether to crop PDF figures with the command pdfcrop. This requires the tools pdfcrop and ghostscript to be installed. By default, fig_crop = TRUE if these two tools are available.
fig_caption	TRUE to render figures with captions
dev	Graphics device to use for figure output (defaults to pdf)
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In

	addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.
theme	Beamer theme (e.g. "AnnArbor").
colortheme	Beamer color theme (e.g. "dolphin").
fonttheme	Beamer font theme (e.g. "structurebold").
highlight	Syntax highlighting style passed to Pandoc.
	Supported built-in styles include "default", "tango", "pygments", "kate", "monochrome", "espresso", "zenburn", "haddock", and "breezedark".
	Two custom styles are also included, "arrow", an accessible color scheme, and "rstudio", which mimics the default IDE theme. Alternatively, supply a path to a '. theme' file to use a custom Pandoc style. Note that custom theme requires Pandoc 2.0+.
	Pass NULL to prevent syntax highlighting.
template	Pandoc template to use for rendering. Pass "default" to use the rmarkdown pack- age default template; pass NULL to use pandoc's built-in template; pass a path to use a custom template that you've created. See the documentation on pandoc online documentation for details on creating custom templates.
keep_tex	Keep the intermediate tex file used in the conversion to PDF. Note that this argument does not control whether to keep the auxiliary files (e.g., '.aux') generated by LaTeX when compiling '.tex' to '.pdf'. To keep these files, you may set options(tinytex.clean = FALSE).
keep_md	Keep the markdown file generated by knitting.
latex_engine	LaTeX engine for producing PDF output. Options are "pdflatex", "lualatex", "xelatex" and "tectonic".
citation_packag	
	The LaTeX package to process citations, natbib or biblatex. Use default if neither package is to be used, which means citations will be processed via the command pandoc-citeproc.
self_contained	Whether to generate a full LaTeX document (TRUE) or just the body of a La- TeX document (FALSE). Note the LaTeX document is an intermediate file unless keep_tex = TRUE.
includes	Named list of additional content to include within the document (typically cre- ated using the includes function).
md_extensions	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.
pandoc_args	Additional command line options to pass to pandoc
extra_dependenc	
	A LaTeX dependency latex_dependency(), a list of LaTeX dependencies, a character vector of LaTeX package names (e.g. c("framed", "hyperref")), or a named list of LaTeX package options with the names being package names (e.g. list(hyperef = c("unicode=true", "breaklinks=true"), lmodern = NULL)). It can be used to add custom LaTeX packages to the .tex header.

Details

See the online documentation for additional details on using the beamer_presentation format.

Creating Beamer output from R Markdown requires that LaTeX be installed.

R Markdown documents can have optional metadata that is used to generate a document header that includes the title, author, and date. For more details see the documentation on R Markdown metadata.

R Markdown documents also support citations. You can find more information on the markdown syntax for citations in the **Bibliographies and Citations** article in the online documentation.

Value

R Markdown output format to pass to render()

Examples

Not run: library(rmarkdown) # simple invocation render("pres.Rmd", beamer_presentation()) # specify an option for incremental rendering render("pres.Rmd", beamer_presentation(incremental = TRUE)) ## End(Not run)

compile_notebook Compiling R scripts to a notebook

Description

R Markdown can also compile R scripts to a notebook which includes commentary, source code, and script output. Notebooks can be compiled to any output format including HTML, PDF, and MS Word.

Overview

To compile a notebook from an R script you simply pass the script to render. For example:

```
rmarkdown::render("analysis.R")
rmarkdown::render("analysis.R", "pdf_document")
```

The first call to render creates an HTML document, whereas the second creates a PDF document.

By default the name of the script, username, and current date and time are included in the header of the generated notebook. You can override this default behavior by including explicit metadata in a specially formatted R comment:

```
#' ---
#' title: "Crop Analysis Q3 2013"
#' author: "John Smith"
#' date: "May 3rd, 2014"
#' ---
```

Including Markdown

Note that the R comment used above to add a title, author, and date includes a single-quote as a special prefix character. This is a **roxygen2** style comment, and it's actually possible to include many such comments in an R script, all of which will be converted to markdown content within the generated notebook. For example:

#' A script comment that includes **markdown** formatting.

Rather than displaying as an R comment in the compiled notebook any **roxygen2** style comment will be treated as markdown and rendered accordingly.

knitr Spin

Including markdown within R comments is possible because render calls the knitr spin function to convert the R script to an Rmd file. The spin function also enables you to add knitr chunk options with another special comment prefix (#+).

Here's an example of a script that uses the various features of spin:

https://github.com/yihui/knitr/blob/master/inst/examples/knitr-spin.R

For more details on knitr::spin see the following documentation:

https://yihui.org/knitr/demo/stitch/

context_document Convert to a ConTeXt document

Description

Format for converting from R Markdown to PDF using ConTeXt.

Usage

```
context_document(
  toc = FALSE,
  toc_depth = 2,
  number_sections = FALSE,
  fig_width = 6.5,
  fig_height = 4.5,
  fig_crop = "auto",
  fig_caption = TRUE,
  dev = "pdf",
```

10

context_document

```
df_print = "default",
template = NULL,
keep_tex = FALSE,
keep_md = FALSE,
citation_package = c("default", "natbib", "biblatex"),
includes = NULL,
md_extensions = NULL,
output_extensions = NULL,
pandoc_args = NULL,
context_path = NULL,
context_args = NULL,
ext = c(".pdf", ".tex")
)
```

Arguments

toc	TRUE to include a table of contents in the output
toc_depth	Depth of headers to include in table of contents
number_section	
	TRUE to number section headings
fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_crop	Whether to crop PDF figures with the command pdfcrop. This requires the tools pdfcrop and ghostscript to be installed. By default, fig_crop = TRUE if these two tools are available.
fig_caption	TRUE to render figures with captions
dev	Graphics device to use for figure output (defaults to pdf)
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.
template	Pandoc template to use for rendering. Pass "default" to use the rmarkdown pack- age default template; pass NULL to use pandoc's built-in template; pass a path to use a custom template that you've created. See the documentation on pandoc online documentation for details on creating custom templates.
keep_tex	Keep the intermediate tex file used in the conversion to PDF. Note that this argument does not control whether to keep the auxiliary files (e.g., '.aux') generated by LaTeX when compiling '.tex' to '.pdf'. To keep these files, you may set options(tinytex.clean = FALSE).
keep_md	Keep the markdown file generated by knitting.

citation_packag	ge	
	The LaTeX package to process citations, natbib or biblatex. Use default if neither package is to be used, which means citations will be processed via the command pandoc-citeproc.	
includes	Named list of additional content to include within the document (typically created using the includes function).	
md_extensions	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.	
output_extensions		
	Pandoc extensions to be added or removed from the output format, e.g., "-smart" means the output format will be latex-smart.	
pandoc_args	Additional command line options to pass to pandoc	
context_path	Path of the ConTeXt executable. If not provided, ConTeXt has to be available from the PATH environment variable.	
context_args	Command line arguments passed to ConTeXt.	
ext	Format of the output document (defaults to ".pdf").	

Details

ConTeXt needs to be installed, e.g., you can install it with tinytex::tlmgr_install("context").

R Markdown documents can have optional metadata that is used to generate a document header that includes the title, author, and date. For more details see the documentation on R Markdown metadata.

R Markdown documents also support citations. You can find more information on the markdown syntax for citations in the **Bibliographies and Citations** article in the online documentation.

Value

R Markdown output format to pass to render.

Examples

```
## Not run:
library(rmarkdown)
```

```
# simple invocation
render("input.Rmd", context_document())
```

End(Not run)

convert_ipynb

Description

Read a Jupyter/IPython notebook file ('.ipynb') via jsonlite::fromJSON(), convert its code cells to R Markdown code chunks, preserve Markdown cells, and write out the results to an Rmd file.

Usage

convert_ipynb(input, output = xfun::with_ext(input, "Rmd"))

Arguments

input	Path to the input '. ipynb' file.
output	The output file path.

Details

This simple converter may have some rough edges, depending on how many IPython-specific features are used in a notebook. For example, line magics are not automatically converted (warnings will be issued if line magics are detected), but you may consider using or writing R functions to replace them in R Markdown (e.g., the %load magic may be replaced by reticulate::source_python()). Cell magics will be converted to code chunks with the (**knitr**) language engine names being the magic names. For example, the cell magic %%js is converted to ```{js} in R Markdown. This does not always work because not all IPython cell magics have their counterparts in **knitr**'s language engines, but common cell magics like %%bash, %%sh, %%js, %%perl, %%python, and %%ruby should work.

Value

The output file path (invisibly).

Examples

```
# this is not a real ipynb file, but illustrates what convert_ipynb() does
nb_data <- list(
    cells = list(
        list(cell_type = 'markdown', source = 'Hi **Markdown**!'),
        list(cell_type = 'code', source = 'print("Hi R Markdown!")')
    ),
    metadata = list(
        kernelspec = list(language = 'python')
    )
    nb_file = tempfile(fileext = '.ipynb')
    jsonlite::write_json(nb_data, nb_file, auto_unbox = TRUE, pretty = TRUE)
    xfun::file_string(nb_file) # show file content
```

```
# convert to R Markdown
nb_rmd = rmarkdown:::convert_ipynb(nb_file)
xfun::file_string(nb_rmd)
```

default_output_format Determine the default output format for an R Markdown document

Description

Read the YAML metadata (and any common output YAML file) for the document and return the output format that will be generated by a call to render.

Usage

default_output_format(input, output_yaml = NULL)

Arguments

input	Input file (Rmd or plain markdown)
output_yaml	Paths to YAML files specifying output formats and their configurations. The first existing one is used. If none are found, then the function searches YAML files specified to the output_yaml top-level parameter in the YAML front matter, _output.yml or _output.yaml, and then uses the first existing one.

Details

This function is useful for front-end tools that require additional knowledge of the output to be produced by render (e.g. to customize the preview experience).

Value

A named list with a name value containing the format name and an options value that is a list containing all the options for the format and their values. An option's default value will be returned if the option isn't set explicitly in the document.

draft

Description

Create (and optionally edit) a draft of an R Markdown document based on a template.

Usage

```
draft(file, template, package = NULL, create_dir = "default", edit = TRUE)
```

Arguments

file	File name for the draft
template	Template to use as the basis for the draft. This is either the full path to a template directory or the name of a template directory within the rmarkdown/templates directory of a package.
package	(Optional) Name of package where the template is located.
create_dir	TRUE to create a new directory for the document (the "default" setting leaves this behavior up to the creator of the template).
edit	TRUE to edit the template immediately

Details

The draft function creates new R Markdown documents based on templates that are either located on the filesystem or within an R package. The template and its supporting files will be copied to the location specified by file.

Value

The file name of the new document (invisibly).

Note

An R Markdown template consists of a directory that contains a description of the template, a skeleton Rmd file used as the basis for new documents, and optionally additional supporting files that are provided along with the skeleton (e.g. a logo graphic).

If the template directory is contained within a package then it should be located at inst/rmarkdown/templates. For example, a package named **pubtools** that wanted to provide a template named quarterly_report would need to provide the following files within the pubtools/inst/rmarkdown/templates directory:

quarterly_report/template.yaml
quarterly_report/skeleton/skeleton.Rmd

The template.yaml file should include a name field. If you want to ensure that a new directory is always created for a given template, then you can add the create_dir field to the template.yaml file. For example:

create_dir: true

The skeleton/skeleton.Rmd file should include the initial contents you want for files created from this template. Additional files can be added to the skeleton directory, for example:

skeleton/logo.png

These files will automatically be copied to the directory containing the new R Markdown draft.

Examples

End(Not run)

```
find_external_resources
```

Find External Resource References

Description

Given an R Markdown document or HTML file, attempt to determine the set of additional files needed in order to render and display the document.

Usage

```
find_external_resources(input_file, encoding = "UTF-8")
```

Arguments

input_file	path to the R Markdown document or HTML file to process
encoding	Ignored. The encoding is always assumed to be UTF-8.

Details

This routine applies heuristics in order to scan a document for possible resource references.

In R Markdown documents, it looks for references to files implicitly referenced in Markdown (e.g. <code>![alt](img.png)</code>), in the document's YAML header, in raw HTML chunks, and as quoted strings in R code chunks (e.g. <code>read.csv("data.csv")</code>).

16

find_pandoc

Resources specified explicitly in the YAML header for R Markdown documents are also returned. To specify resources in YAML, use the resource_files key:

Each item in the resource_files list can refer to:

- 1. A single file, such as images/figure.png, or
- 2. A directory, such as resources/data, in which case all of the directory's content will be recursively included, or
- 3. A wildcard pattern, such as data/*.csv, in which case all of the files matching the pattern will be included. No recursion is done in this case.

In HTML files (and raw HTML chunks in R Markdown documents), this routine searches for resources specified in common tag attributes, such as , <link href="...">, <link href="...">, etc.

In all cases, only resources that exist on disk and are contained in the document's directory (or a child thereof) are returned.

Value

A data frame with the following columns:

path The relative path from the document to the resource

explicit Whether the resource was specified explicitly (TRUE) or discovered implicitly (FALSE)

web Whether the resource is needed to display a Web page rendered from the document

find_pandoc Find the pandoc executable

Description

Searches for the pandoc executable in a few places and use the highest version found, unless a specific version is requested.

Usage

```
find_pandoc(cache = TRUE, dir = NULL, version = NULL)
```

Arguments

cache	Whether to search for pandoc again if a Pandoc directory containing the pandoc executable of the expected version (if provided) has been found previously. Search again if cache = FALSE.
dir	A character vector of potential directory paths under which pandoc may be found. If not provided, this function searches for pandoc from the environment variable <i>RSTUDIO_PANDOC</i> (the RStudio IDE will set this variable to the directory of Pandoc bundled with the IDE), the environment variable <i>PATH</i> , and the directory '~/opt/pandoc/'.
version	The version of Pandoc to look for (e.g., "2.9.2.1"). If not provided, this func- tion searches for the highest version under the potential directories.

Value

A list containing the directory and version of Pandoc (if found).

Note

Usually you do not need to install Pandoc if you use the RStudio IDE, because the IDE has bundled a version of Pandoc. If you have installed a version of Pandoc by yourself and want to use this version instead, you may use the dir argument of this function.

Examples

```
rmarkdown::find_pandoc()
rmarkdown::find_pandoc(dir = '~/Downloads/Pandoc')
rmarkdown::find_pandoc(version = '2.7.3')
```

github_document Convert to GitHub Flavored Markdown

Description

Format for converting from R Markdown to GitHub Flavored Markdown.

Usage

```
github_document(
  toc = FALSE,
  toc_depth = 3,
  number_sections = FALSE,
  math_method = "default",
  preserve_yaml = FALSE,
  fig_width = 7,
  fig_height = 5,
  dev = "png",
  df_print = "default",
```

github_document

```
includes = NULL,
md_extensions = NULL,
hard_line_breaks = TRUE,
pandoc_args = NULL,
html_preview = TRUE,
keep_html = FALSE
)
```

Arguments

toc	TRUE to include a table of contents in the output	
toc_depth	Depth of headers to include in table of contents	
number_sections		
	TRUE to number section headings	
math_method	"default" means that native Github support for math notations using Mathjax syntax will be used. Other possible value is "webtex" where equation will be rendered to an image in the resulting Markdown. See html_document() for option to change webtex URL. Set math_methodto NULL to opt-out any math treatment.	
preserve_yaml	Preserve YAML front matter in final document.	
fig_width	Default width (in inches) for figures	
fig_height	Default height (in inches) for figures	
dev	Graphics device to use for figure output (defaults to png)	
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.	
includes	Named list of additional content to include within the document (typically created using the includes function).	
md_extensions	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.	
hard_line_breaks		
	TRUE to generate markdown that uses a simple newline to represent a line break (as opposed to two-spaces and a newline).	
pandoc_args	Additional command line options to pass to pandoc	
html_preview	TRUE to also generate an HTML file for the purpose of locally previewing what the document will look like on GitHub.	
keep_html	TRUE to keep the preview HTML file in the working directory. Default is FALSE.	

Details

See the online documentation for additional details on using the github_document() format.

Value

R Markdown output format to pass to render()

About Math support

Default behavior is to keep any inline equation using \$ and any block equation using \$\$ in the resulting markdown as Github will process those using Mathjax. This feature is only available with Pandoc 2.10.1 and above

When using "webtex", PNG images with a white background are used by default so that it shows correctly on Github on both light and dark theme. You can choose to only output SVG for better quality by changing the URL used:

```
output:
  github_document:
    math_method:
    engine: webtex
    url: https://latex.codecogs.com/svg.image?
```

Background or fonts color cannot be changed for now and your equation may not be visible on dark theme.

Using "webtex" will be the default with Pandoc 2.0.4 until Pandoc 2.10. Before 2.0.4, Github document output does not support math.

html-dependencies Provide common HTML dependencies for R Markdown formats

Description

These functions provide common HTML dependencies (e.g. jquery, bootstrap) for re-use by other R Markdown formats.

Usage

html_dependency_jquery()

html_dependency_jqueryui()

html_dependency_bootstrap(theme)

html_dependency_tocify()

html_dependency_font_awesome()

html_dependency_ionicons()

html_dependency_pagedtable()

html_dependency_highlightjs(highlight)

html_dependency_tabset()

html_dependency_codefolding_lua()

Arguments

theme	One of the following:
	• A bslib::bs_theme() object (or a list of bslib::bs_theme() argument values)
	- Use this option for custom themes using Bootstrap 4 or 3.
	 In this case, any .scss/.sass files provided to the css parameter may utilize the theme's underlying Sass utilities (e.g., variables, mixins, etc).
	 NULL for no theme (i.e., no html_dependency_bootstrap()).
	• A character string specifying a Bootswatch 3 theme name (for backwards- compatibility).
highlight	Highlighter to use
html_document	Convert to an HTML document

Description

Format for converting from R Markdown to an HTML document.

Usage

```
html_document(
  toc = FALSE,
  toc_depth = 3,
  toc_float = FALSE,
  number_sections = FALSE,
  anchor_sections = FALSE,
  section_divs = TRUE,
  fig_width = 7,
  fig_height = 5,
  fig_retina = 2,
  fig_caption = TRUE,
  dev = "png",
```

```
df_print = "default",
 code_folding = c("none", "show", "hide"),
  code_download = FALSE,
  self_contained = TRUE,
  theme = "default",
 highlight = "default",
 highlight_downlit = FALSE,
 math_method = "default",
 mathjax = "default",
  template = "default",
 extra_dependencies = NULL,
  css = NULL,
  includes = NULL,
 keep_md = FALSE,
 lib_dir = NULL,
 md_extensions = NULL,
 pandoc_args = NULL,
  . . .
)
```

Arguments

toc	TRUE to include a table of contents in the output
toc_depth	Depth of headers to include in table of contents
toc_float	TRUE to float the table of contents to the left of the main document content. Rather than TRUE you may also pass a list of options that control the behavior of the floating table of contents. See the <i>Floating Table of Contents</i> section below for details.
number_sections	
	TRUE to number section headings
anchor_sections	
	TRUE to show section anchors when mouse hovers for all headers. A list can also be passed with style and/or depth to customize the behavior. See Anchor Sections Customization section.
section_divs	Wrap sections in $\langle div \rangle$ tags, and attach identifiers to the enclosing $\langle div \rangle$ rather than the header itself.
fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_retina	Scaling to perform for retina displays (defaults to 2, which currently works for all widely used retina displays). Set to NULL to prevent retina scaling. Note that this will always be NULL when keep_md is specified (this is because fig_retina relies on outputting HTML directly into the markdown document).
fig_caption	TRUE to render figures with captions
dev	Graphics device to use for figure output (defaults to png)
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3

22

method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the **tibble** package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.

- code_folding Enable document readers to toggle the display of R code chunks. Specify "none" to display all code chunks. Specify "hide" or "show" to hide or show all R code chunks by default, and let readers toggle the states on browsers. See the *Code folding*
- code_download Embed the Rmd source code within the document and provide a link that can be used by readers to download the code.
- self_contained Produce a standalone HTML file with no external dependencies, using data: URIs to incorporate the contents of linked scripts, stylesheets, images, and videos. Note that even for self contained documents MathJax is still loaded externally (this is necessary because of its size).

theme One of the following:

- A bslib::bs_theme() object (or a list of bslib::bs_theme() argument values)
 - Use this option for custom themes using Bootstrap 4 or 3.
 - In this case, any .scss/.sass files provided to the css parameter may utilize the theme's underlying Sass utilities (e.g., variables, mixins, etc).
- NULL for no theme (i.e., no html_dependency_bootstrap()).
- A character string specifying a Bootswatch 3 theme name (for backwardscompatibility).
- highlight Syntax highlight engine and style. See the *Highlighting* section below for details.

"default" (and "textmate") will use highlightjs as syntax highlighting engine instead of Pandoc.

Any other value will be passed as Pandoc's highlighting style. Pandoc's built-in styles include "tango", "pygments", "kate", "monochrome", "espresso", "zenburn", "haddock" and "breezedark".

Two custom styles are also included, "arrow", an accessible color scheme, and "rstudio", which mimics the default IDE theme. Alternatively, supply a path to a '. theme' to use a custom Pandoc style. Note that custom theme requires Pandoc 2.0+.

Pass NULL to prevent syntax highlighting.

highlight_downlit

TRUE to use the **downlit** package as syntax highlight engine to highlight inline code and R code chunks (including providing hyperlinks to function documentation). The package needs to be installed to use this feature.

	Only Pandoc color schemes are supported with this engine. With highlight = "default", it will use the accessible theme called "arrow". To learn more about downlit highlighting engine, see https://downlit.r-lib.org/.
math_method	Math rendering engine to use. This will define the math method to use with Pandoc.
	 It can be a string for the engine, one of "mathjax", "mathml", "webtex", "katex", "gladtex", or "r-katex" or "default" for mathjax. It can be a list of
	 engine: one of "mathjax", "mathml", "webtex", "katex", or "gladtex". url: A specific url to use with mathjax, katex or webtex. Note that for engine = "mathjax", url = "local" will use a local version of MathJax (which is copied into the output directory).
	For example,
	output: html_document: math_method: engine: katex url: https://cdn.jsdelivr.net/npm/katex@0.11.1/dist
	See Pandoc's Manual about Math in HTML for the details about Pandoc supported methods.
	Using math_method = "r-katex" will opt-in server side rendering using KaTeX thanks to katex R package. This is useful compared to math_method = "katex" to have no JS dependency, only a CSS dependency for styling equation.
mathjax	Include mathjax. The "default" option uses an https URL from a MathJax CDN. The "local" option uses a local version of MathJax (which is copied into the output directory). You can pass an alternate URL or pass NULL to exclude MathJax entirely.
template	Pandoc template to use for rendering. Pass "default" to use the rmarkdown pack- age default template; pass NULL to use pandoc's built-in template; pass a path to use a custom template that you've created. Note that if you don't use the "de- fault" template then some features of html_document won't be available (see the Templates section below for more details).
extra_dependencies	
	Extra dependencies as a list of the html_dependency class objects typically generated by htmltools:htmlDependency().
CSS	CSS and/or Sass files to include. Files with an extension of .sass or .scss are compiled to CSS via sass::sass(). Also, if theme is a bslib::bs_theme() object, Sass code may reference the relevant Bootstrap Sass variables, functions, mixins, etc.
includes	Named list of additional content to include within the document (typically created using the includes function).
keep_md	Keep the markdown file generated by knitting.
lib_dir	Directory to copy dependent HTML libraries (e.g. jquery, bootstrap, etc.) into. By default this will be the name of the document with _files appended to it.

<pre>md_extensions</pre>	Markdown extensions to be added or removed from the default definition of R
	Markdown. See the rmarkdown_format for additional details.
pandoc_args	Additional command line options to pass to pandoc
	Additional function arguments to pass to the base R Markdown HTML output
	formatter html_document_base

Details

See the online documentation for additional details on using the html_document format.

R Markdown documents can have optional metadata that is used to generate a document header that includes the title, author, and date. For more details see the documentation on R Markdown metadata.

R Markdown documents also support citations. You can find more information on the markdown syntax for citations in the **Bibliographies and Citations** article in the online documentation.

Value

R Markdown output format to pass to render

Highlighting

There are three highlighting engines available to HTML documents:

- **highlightjs** It does highlighting in the browser, using javascript It can only be used with the default template (i.e template = "default") and it has two styles ("default" and "textmate"). When activated, it adds two additional dependencies to the output file: a JS script and a CSS file. For now, this is the default engine for the default template this could change in the future.
- Pandoc Pandoc's built-in highlighting.engine works with any template, default or custom, and style can be chosen among the built-in ones ("tango", "pygments", "kate", "monochrome", "espresso", "zenburn", "haddock" and "breezedark") or a path to a custom theme ".theme" file (see Details in the Pandoc Manual). rmarkdown includes two custom themes to select with highlight parameter:
 - "arrow", an accessible style using colors optimized for accessibility and color contrast
 - "rstudio", a color scheme close to RStudio's default highlighting and highglightjs's textmate.

Custom themes are only available for Pandoc 2.0 and above.

downlit downlit is an R package that provides a syntax highlighting engine in R. It will also do automatic linking of R code (requires internet connectivity). It is activated only if highlight_downlit = TRUE and only affects R code, leaving highlighting for other languages unchanged. The default color scheme is the accessible theme "arrow".

It requires some CSS in the template to correctly style links. This is included in the default template, but if you want to use with a custom template, you will need to add this to your template:

```
$if(highlight-downlit)$
<style type="text/css">
    code a:any-link {
```

```
color: inherit; /* use colour from syntax highlighting */
text-decoration: underline;
text-decoration-color: #ccc;
}
</style>
$endif$
```

Anchor Sections Customization

This will be the default to activate anchor sections link on header

```
output:
html_document:
anchor_sections: TRUE
```

There are currently two options to modify the default behavior

style Select a predefined visual style:

- style = "dash", the default, uses '#', a minimalist choice that evokes the id selector from HTML and CSS.
- style = "symbol" will use a link symbol
- style = "icon" will use an svg icon.

You can also customize using a css rule in your document. For example, to get a pictogram :

```
a.anchor-section::before {
   content: '\\01F517';
}
```

About how to apply custom CSS in R Markdown document, see https://bookdown.org/ yihui/rmarkdown-cookbook/html-css.html

depth Select the maximum header level to add the anchor link to. For example, this yaml will use the symbol style and only with level 1 and 2 headings:

```
output:
    html_document:
    anchor_sections:
        style: icon
        depth: 2
```

If omitted, anchor will be added to all headers (equivalent of depth=6). You can also set anchors manually with depth = 0 using this syntax

```
# my header {.hasAnchor}
```

Using anchor sections will add some CSS to your document output for the styling, and a JS script if section_divs = TRUE. The anchor link itself is added using a Lua filter, and hence requires Pandoc 2.0+

html_document

Navigation Bars

If you have a set of html documents which you'd like to provide a common global navigation bar for, you can include a "_navbar.yml" or "_navbar.html" file within the same directory as your html document and it will automatically be included at the top of the document.

The "_navbar.yml" file includes title, type, left, and right fields (to define menu items for the left and right of the navbar respectively). Menu items include title and href fields. For example:

```
title: "My Website"
type: default
left:
    - text: "Home"
    href: index.html
    - text: "Other"
    href: other.html
right:
    - text: GitHub
    href: https://github.com
```

The type field is optional and can take the value "default" or "inverse" (which provides a different color scheme for the navigation bar).

Alternatively, you can include a "_navbar.html" file which is a full HTML definition of a bootstrap navigation bar. For a simple example of including a navigation bar see https://github. com/rstudio/rmarkdown-website/blob/master/_navbar.html. For additional documentation on creating Bootstrap navigation bars see https://getbootstrap.com/docs/4.5/components/ navbar/.

Floating Table of Contents

You may specify a list of options for the toc_float parameter which control the behavior of the floating table of contents. Options include:

- collapsed (defaults to TRUE) controls whether the table of contents appears with only the top-level (H2) headers. When collapsed the table of contents is automatically expanded inline when necessary.
- smooth_scroll (defaults to TRUE) controls whether page scrolls are animated when table of contents items are navigated to via mouse clicks.
- print (defaults to TRUE) controls whether the table of contents appears when user prints out the HTML page.

Code folding

Code blocks become foldable by specifying "show" or "hide" to the code_folding parameter. The state can be toggled individually on browsers. The document-wide toggle button is also provided for html_document and some of its extensions such as html_notebook. Note that this feature applies not only to source codes of chunks, but also markdown code blocks.

Supported languages are R, Python, Bash, SQL, C++, Stan, and Julia. To support code blocks with other languages, add foldable class to them (i.e., class.source = "foldable" as a chunk option).

The default initial state of code folding respects the value given to the code_folding parameter. To override the behavior individually, add fold-none to disable, fold-hide to initially hide, fold-show to initially show.

Tabbed Sections

You can organize content using tabs by applying the .tabset class attribute to headers within a document. This will cause all sub-headers of the header with the .tabset attribute to appear within tabs rather than as standalone sections. For example:

```
## Quarterly Results {.tabset}
```

By Product

By Region

With html_document(), you can also specify two additional attributes to control the appearance and behavior of the tabs. The .tabset-fade attributes causes the tabs to fade in and out when switching. The .tabset-pills attribute causes the visual appearance of the tabs to be "pill" rather than traditional tabs. For example:

Quarterly Results {.tabset .tabset-fade .tabset-pills}

If tabbed sections relies on html_dependency_tabset(), for example by html_vignette(), these two attributes are not supported.

Templates

You can provide a custom HTML template to be used for rendering. The syntax for templates is described in the pandoc documentation. You can also use the basic pandoc template by passing template = NULL.

Note however that if you choose not to use the "default" HTML template then several aspects of HTML document rendering will behave differently:

- The theme parameter does not work (you can still provide styles using the css parameter).
- For the highlight parameter, the default highlighting engine will resolve to Pandoc instead of highlightjs and highlighting style will default to "pygments". "textmate" style is not available as related to highlightjs
- The toc_float parameter will not work.
- The code_folding parameter will not work.
- Tabbed sections (as described above) will not work.
- Navigation bars (as described above) will not work.
- MathJax will not work if self_contained is TRUE (these two options can't be used together in normal pandoc templates).

Due to the above restrictions, you might consider using the includes parameter as an alternative to providing a fully custom template.

html_document_base

Examples

```
## Not run:
library(rmarkdown)
render("input.Rmd", html_document())
render("input.Rmd", html_document(toc = TRUE))
## End(Not run)
```

html_document_base Base output format for HTML-based output formats

Description

Creates an HTML base output format suitable for passing as the base_format argument of the output_format function.

Usage

```
html_document_base(
    theme = NULL,
    self_contained = TRUE,
    lib_dir = NULL,
    math_method = "default",
    mathjax = "default",
    pandoc_args = NULL,
    template = "default",
    dependency_resolver = NULL,
    copy_resources = FALSE,
    extra_dependencies = NULL,
    css = NULL,
    bootstrap_compatible = FALSE,
    ...
)
```

Arguments

theme

One of the following:

- A bslib::bs_theme() object (or a list of bslib::bs_theme() argument values)
 - Use this option for custom themes using Bootstrap 4 or 3.
 - In this case, any .scss/.sass files provided to the css parameter may utilize the theme's underlying Sass utilities (e.g., variables, mixins, etc).
- NULL for no theme (i.e., no html_dependency_bootstrap()).

	• A character string specifying a Bootswatch 3 theme name (for backwards-compatibility).
self_contained	Produce a standalone HTML file with no external dependencies, using data: URIs to incorporate the contents of linked scripts, stylesheets, images, and videos. Note that even for self contained documents MathJax is still loaded externally (this is necessary because of its size).
lib_dir	Directory to copy dependent HTML libraries (e.g. jquery, bootstrap, etc.) into. By default this will be the name of the document with _files appended to it.
math_method	Math rendering engine to use. This will define the math method to use with Pandoc.
	• It can be a string for the engine, one of "mathjax", "mathml", "webtex", "katex", "gladtex", or "r-katex" or "default" for mathjax.
	• It can be a list of
	- engine: one of "mathjax", "mathml", "webtex", "katex", or "gladtex".
	 url: A specific url to use with mathjax, katex or webtex. Note that for engine = "mathjax", url = "local" will use a local version of Math- Jax (which is copied into the output directory).
	For example,
	output:
	html_document:
	<pre>math_method:</pre>
	engine: katex
	url: https://cdn.jsdelivr.net/npm/katex@0.11.1/dist
	See Pandoc's Manual about Math in HTML for the details about Pandoc supported methods.
	Using math_method = "r-katex" will opt-in server side rendering using KaTeX thanks to katex R package. This is useful compared to math_method = "katex" to have no JS dependency, only a CSS dependency for styling equation.
mathjax	Include mathjax. The "default" option uses an https URL from a MathJax CDN. The "local" option uses a local version of MathJax (which is copied into the out- put directory). You can pass an alternate URL or pass NULL to exclude MathJax entirely.
pandoc_args	Additional command line options to pass to pandoc
template	Pandoc template to use for rendering. Pass "default" to use the rmarkdown pack- age default template; pass NULL to use pandoc's built-in template; pass a path to use a custom template that you've created. Note that if you don't use the "de- fault" template then some features of html_document won't be available (see the Templates section below for more details).
dependency_reso	olver
	A dependency resolver
copy_resources	Copy resources
extra_dependend	
	Extra dependencies as a list of the html_dependency class objects typically generated by htmltools:htmlDependency().

html_fragment

CSS	CSS and/or Sass files to include. Files with an extension of .sass or .scss are	
	<pre>compiled to CSS via sass::sass(). Also, if theme is a bslib::bs_theme()</pre>	
	object, Sass code may reference the relevant Bootstrap Sass variables, functions,	
	mixins, etc.	
bootstrap_compatible		
	Bootstrap compatible	
	Ignored	

Value

HTML base output format.

html_fragment

Convert to an HTML fragment.

Description

An html fragment is suitable for inclusion into an external html page. See html_document for full details - this is a minor variation that assumes you will include the output into an existing document (e.g. a blog post).

Usage

```
html_fragment(
  number_sections = FALSE,
  section_divs = TRUE,
  fig_width = 7,
  fig_height = 5,
  fig_retina = 2,
  fig_caption = TRUE,
  dev = "png",
  df_print = "default",
 mathjax = TRUE,
  includes = NULL,
  keep_md = FALSE,
 md_extensions = NULL,
 pandoc_args = NULL,
  . . .
)
```

Arguments

number_sections

TRUE to number section headings

section_divs Wrap sections in <div> tags, and attach identifiers to the enclosing <div> rather than the header itself.

fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_retina	Scaling to perform for retina displays (defaults to 2, which currently works for all widely used retina displays). Set to NULL to prevent retina scaling. Note that this will always be NULL when keep_md is specified (this is because fig_retina relies on outputting HTML directly into the markdown document).
fig_caption	TRUE to render figures with captions
dev	Graphics device to use for figure output (defaults to png)
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.
mathjax	TRUE to convert \$ and \$\$ math blocks into MathJax compatible output. Note that you'll still need to ensure that the page where the fragment is included loads the required MathJax scripts.
includes	Named list of additional content to include within the document (typically cre- ated using the includes function).
keep_md	Keep the markdown file generated by knitting.
md_extensions	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.
pandoc_args	Additional command line options to pass to pandoc
	Additional arguments passed to html_document

Details

See the online documentation for additional details on using the html_fragment format.

Value

R Markdown output format to pass to render

html_notebook

Convert to an HTML notebook

Description

Format for converting from R Markdown to an HTML notebook.

html_notebook

Usage

```
html_notebook(
  toc = FALSE,
  toc_depth = 3,
  toc_float = FALSE,
  number_sections = FALSE,
  fig_width = 7,
  fig_height = 5,
  fig_retina = 2,
  fig_caption = TRUE,
  code_folding = "show",
  theme = "default",
  highlight = "textmate",
  highlight_downlit = FALSE,
 math_method = "default",
 mathjax = "default",
  extra_dependencies = NULL,
  css = NULL,
  includes = NULL,
 md_extensions = NULL,
 pandoc_args = NULL,
 output_source = NULL,
  self_contained = TRUE,
  . . .
)
```

Arguments

toc	TRUE to include a table of contents in the output
toc_depth	Depth of headers to include in table of contents
toc_float	TRUE to float the table of contents to the left of the main document content. Rather than TRUE you may also pass a list of options that control the behavior of the floating table of contents. See the <i>Floating Table of Contents</i> section below
number_section	for details.
	TRUE to number section headings
fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_retina	Scaling to perform for retina displays (defaults to 2, which currently works for all widely used retina displays). Set to NULL to prevent retina scaling. Note that this will always be NULL when keep_md is specified (this is because fig_retina relies on outputting HTML directly into the markdown document).
fig_caption	TRUE to render figures with captions
code_folding	Enable document readers to toggle the display of R code chunks. Specify "none" to display all code chunks. Specify "hide" or "show" to hide or show all R code chunks by default, and let readers toggle the states on browsers. See the <i>Code folding</i>

theme	One of the following:
	• A bslib::bs_theme() object (or a list of bslib::bs_theme() argument values)
	- Use this option for custom themes using Bootstrap 4 or 3.
	 In this case, any .scss/.sass files provided to the css parameter may utilize the theme's underlying Sass utilities (e.g., variables, mixins, etc).
	 NULL for no theme (i.e., no html_dependency_bootstrap()).
	• A character string specifying a Bootswatch 3 theme name (for backwards-compatibility).
highlight	Syntax highlight engine and style. See the <i>Highlighting</i> section below for de- tails.
	"default" (and "textmate") will use highlightjs as syntax highlighting engine in- stead of Pandoc.
	Any other value will be passed as Pandoc's highlighting style. Pandoc's built-in styles include "tango", "pygments", "kate", "monochrome", "espresso", "zenburn", "haddock" and "breezedark".
	Two custom styles are also included, "arrow", an accessible color scheme, and "rstudio", which mimics the default IDE theme. Alternatively, supply a path to a '. theme' to use a custom Pandoc style. Note that custom theme requires Pandoc 2.0+.
	Pass NULL to prevent syntax highlighting.
highlight_dow	
	TRUE to use the downlit package as syntax highlight engine to highlight inline code and R code chunks (including providing hyperlinks to function documentation). The package needs to be installed to use this feature.
	Only Pandoc color schemes are supported with this engine. With highlight = "default", it will use the accessible theme called "arrow". To learn more about downlit highlighting engine, see https://downlit.r-lib.org/ .
<pre>math_method</pre>	Math rendering engine to use. This will define the math method to use with Pandoc.
	• It can be a string for the engine, one of "mathjax", "mathml", "webtex", "katex", "gladtex", or "r-katex" or "default" for mathjax.
	• It can be a list of
	- engine: one of "mathjax", "mathml", "webtex", "katex", or "gladtex".
	 url: A specific url to use with mathjax, katex or webtex. Note that for engine = "mathjax", url = "local" will use a local version of Math- Jax (which is copied into the output directory).
	For example,
	output: html_document: math_method: engine: katex url: https://cdn.jsdelivr.net/npm/katex@0.11.1/dist

See Pandoc's Manual about Math in HTML for the details about Pandoc supported methods.

Using math_method = "r-katex" will opt-in server side rendering using KaTeX thanks to katex R package. This is useful compared to math_method = "katex" to have no JS dependency, only a CSS dependency for styling equation.

mathjaxInclude mathjax. The "default" option uses an https URL from a MathJax CDN.The "local" option uses a local version of MathJax (which is copied into the output directory). You can pass an alternate URL or pass NULL to exclude MathJax entirely.

extra_dependencies

- Extra dependencies as a list of the html_dependency class objects typically generated by htmltools:htmlDependency().
- css CSS and/or Sass files to include. Files with an extension of .sass or .scss are compiled to CSS via sass::sass(). Also, if theme is a bslib::bs_theme() object, Sass code may reference the relevant Bootstrap Sass variables, functions, mixins, etc.
- includes Named list of additional content to include within the document (typically created using the includes function).
- md_extensions Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.
- pandoc_args Additional command line options to pass to pandoc
- output_source Define an output source for R chunks (ie, outputs to use instead of those produced by evaluating the underlying R code). See html_notebook_output for more details.
- self_contained Produce a standalone HTML file with no external dependencies. Defaults to TRUE. In notebooks, setting this to FALSE is not recommended, since the setting does not apply to embedded notebook output such as plots and HTML widgets.
- ... Additional function arguments to pass to the base R Markdown HTML output formatter html_document_base

Details

See the online documentation for additional details on using the html_notebook format.

html_notebook_metadata

Generate R Notebook Metadata

Description

A structured helper for the construction of metadata used by the R Notebook output functions. See html_notebook_output for more details.

Usage

```
html_notebook_metadata(iframe = TRUE)
```

Arguments

iframe Boolean; should output be shown in an <iframe>?

html_notebook_output Generate R Notebook Output

Description

Utilities for generating output for the html_notebook format, through the output_source function attached to a output_format.

Usage

```
html_notebook_output_html(html, meta = NULL)
```

```
html_notebook_output_img(
   path = NULL,
   bytes = NULL,
   attributes = NULL,
   format = c("png", "jpeg")
)
html_notebook_output_png(
   path = NULL,
   bytes = NULL,
   attributes = NULL,
   meta = NULL,
   format = c("png", "jpeg")
)
```

html_notebook_output_code(code, attributes = list(class = "r"), meta = NULL)

Arguments

html	Arbitrary HTML content to insert.
meta	An R list of arbitrary meta-data. The data will be converted to JSON, base64- encoded, and injected into the header comment.
path	A path to a file. For functions accepting both path and bytes, if bytes is NULL, the bytewise contents will be obtained by reading the file.
bytes	The bytewise representation of content.

36

attributes	A named R list of HTML attributes. These will be escaped and inserted into the generated HTML as appropriate.
format	The image format; one of "png" or "jpeg".
code	Source code.

Details

See the online documentation for additional details on using the html_notebook format.

html_vignette Convert to an HTML vignette

Description

A HTML vignette is a lightweight alternative to html_document() suitable for inclusion in packages to be released to CRAN. It reduces the size of a basic vignette from 100k to around 10k.

Usage

```
html_vignette(
    fig_width = 3,
    fig_height = 3,
    dev = "png",
    df_print = "default",
    css = NULL,
    highlight = "pygments",
    keep_md = FALSE,
    readme = FALSE,
    self_contained = TRUE,
    tabset = FALSE,
    code_folding = c("none", "show", "hide"),
    extra_dependencies = NULL,
    pandoc_args = NULL,
    ...
```

)

fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
dev	Graphics device to use for figure output (defaults to png)
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML

	table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.
CSS	One or more css files to include.
highlight,	Additional arguments passed to html_document(). Please note that theme and fig_retina are hard-coded. Setting any of those will yield an error.
keep_md	Keep the markdown file generated by knitting.
readme	Use this vignette as the package README.md file (i.e. render it as README.md to the package root). Note that if there are image files within your vignette you should be sure to add 'README_files' to '.Rbuildignore'.
self_contained	Produce a standalone HTML file with no external dependencies, using data: URIs to incorporate the contents of linked scripts, stylesheets, images, and videos. Note that even for self contained documents MathJax is still loaded externally (this is necessary because of its size).
tabset	Opt-in tabbed-sections feature inspired by html_document(). See section "Tabbed Sections" for the detail. This feature also allows navigation to the tab from table of contents and URL.
code_folding	Enable document readers to toggle the display of R code chunks. Specify "none" to display all code chunks. Specify "hide" or "show" to hide or show all R code chunks by default, and let readers toggle the states on browsers. See the <i>Code folding</i>
extra_dependenc	
	Extra dependencies as a list of the html_dependency class objects typically generated by htmltools:htmlDependency().
pandoc_args	Additional command line options to pass to pandoc

Details

Compared to html_document(), it:

- never uses retina figures
- never uses a theme
- has a smaller default figure size
- uses a custom css stylesheet

See the online documentation for additional details on using the html_vignette() format.

Value

R Markdown output format to pass to render()

includes

Tabbed Sections

You can organize content using tabs by applying the .tabset class attribute to headers within a document. This will cause all sub-headers of the header with the .tabset attribute to appear within tabs rather than as standalone sections. For example:

Quarterly Results {.tabset}

By Product

By Region

With html_document(), you can also specify two additional attributes to control the appearance and behavior of the tabs. The .tabset-fade attributes causes the tabs to fade in and out when switching. The .tabset-pills attribute causes the visual appearance of the tabs to be "pill" rather than traditional tabs. For example:

```
## Quarterly Results {.tabset .tabset-fade .tabset-pills}
```

If tabbed sections relies on html_dependency_tabset(), for example by html_vignette(), these two attributes are not supported.

Code folding

Code blocks become foldable by specifying "show" or "hide" to the code_folding parameter. The state can be toggled individually on browsers. The document-wide toggle button is also provided for html_document and some of its extensions such as html_notebook. Note that this feature applies not only to source codes of chunks, but also markdown code blocks.

Supported languages are R, Python, Bash, SQL, C++, Stan, and Julia. To support code blocks with other languages, add foldable class to them (i.e., class.source = "foldable" as a chunk option).

The default initial state of code folding respects the value given to the code_folding parameter. To override the behavior individually, add fold-none to disable, fold-hide to initially hide, fold-show to initially show.

includes

Include content within output

Description

Specify additional content to be included within an output document.

Usage

includes(in_header = NULL, before_body = NULL, after_body = NULL)

includes_to_pandoc_args(includes, filter = identity)

Arguments

in_header	One or more files with content to be included in the header of the document.
before_body	One or more files with content to be included before the document body.
after_body	One or more files with content to be included after the document body.
includes	Includes to convert to pandoc args.
filter	Filter to pre-process includes with.

Details

Non-absolute paths for resources referenced from the in_header, before_body, and after_body parameters are resolved relative to the directory of the input document.

Value

Includes list or pandoc args

Examples

Not run: library(rmarkdown)

html_document(includes = includes(before_body = "header.htm"))

pdf_document(includes = includes(after_body = "footer.tex"))

End(Not run)

ioslides_presentation Convert to an ioslides Presentation

Description

Format for converting from R Markdown to an ioslides presentation.

Usage

```
ioslides_presentation(
   number_sections = FALSE,
   logo = NULL,
   slide_level = 2,
   incremental = FALSE,
   fig_width = 7.5,
   fig_height = 4.5,
   fig_retina = 2,
   fig_caption = TRUE,
   dev = "png",
```

40

```
df_print = "default",
  smart = TRUE,
  self_contained = TRUE,
 widescreen = FALSE,
  smaller = FALSE,
 transition = "default",
 math_method = "mathjax",
 mathjax = "default",
 analytics = NULL,
  template = NULL,
 css = NULL,
  includes = NULL,
 keep_md = FALSE,
 lib_dir = NULL,
 md_extensions = NULL,
 pandoc_args = NULL,
 extra_dependencies = NULL,
  • • •
)
```

number_sections	
	TRUE to number section headings
logo	Path to file that includes a logo for use in the presentation (should be square and at least 128x128).
slide_level	Header level to consider as slide separator (Defaults to header 2).
incremental	TRUE to render slide bullets incrementally. Note that if you want to reverse the default incremental behavior for an individual bullet you can preceded it with >. For example: > - Bullet Text.
fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_retina	Scaling to perform for retina displays (defaults to 2, which currently works for all widely used retina displays). Set to NULL to prevent retina scaling. Note that this will always be NULL when keep_md is specified (this is because fig_retina relies on outputting HTML directly into the markdown document).
fig_caption	TRUE to render figures with captions
dev	Graphics device to use for figure output (defaults to png)
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely

	by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.
smart	Produce typographically correct output, converting straight quotes to curly quotes, to em-dashes, to en-dashes, and to ellipses.
self_contained	Produce a standalone HTML file with no external dependencies, using data: URIs to incorporate the contents of linked scripts, stylesheets, images, and videos. Note that even for self contained documents MathJax is still loaded externally (this is necessary because of its size).
widescreen	Display presentation with wider dimensions.
smaller	Use smaller text on all slides. You can also enable this for individual slides by adding the .smaller attribute to the slide header (see <i>Presentation Size</i> below for details).
transition	Speed of slide transitions. This can be "default", "slower", "faster", or a numeric value with a number of seconds (e.g. 0.5).
math_method	Math rendering engine to use. This will define the math method to use with Pandoc.
	 It can be a string for the engine, one of "mathjax", "mathml", "webtex", "katex", "gladtex", or "r-katex" or "default" for mathjax. It can be a list of
	 engine: one of "mathjax", "mathml", "webtex", "katex", or "gladtex". url: A specific url to use with mathjax, katex or webtex. Note that for engine = "mathjax", url = "local" will use a local version of MathJax (which is copied into the output directory).
	For example,
	output: html_document: math_method: engine: katex url: https://cdn.jsdelivr.net/npm/katex@0.11.1/dist
	See Pandoc's Manual about Math in HTML for the details about Pandoc supported methods.
	Using math_method = "r-katex" will opt-in server side rendering using KaTeX thanks to katex R package. This is useful compared to math_method = "katex" to have no JS dependency, only a CSS dependency for styling equation.
mathjax	Include mathjax. The "default" option uses an https URL from a MathJax CDN. The "local" option uses a local version of MathJax (which is copied into the out- put directory). You can pass an alternate URL or pass NULL to exclude MathJax entirely.
analytics	A Google analytics property ID.
template	Pandoc template to use for rendering. Pass "default" to use the rmarkdown pack- age default template; pass NULL to use pandoc's built-in template; pass a path to use a custom template that you've created. Note that if you don't use the "de- fault" template then some features of html_document won't be available (see the Templates section below for more details).

CSS	One or more css files to include.	
includes	Named list of additional content to include within the document (typically cre- ated using the includes function).	
keep_md	Keep the markdown file generated by knitting.	
lib_dir	Directory to copy dependent HTML libraries (e.g. jquery, bootstrap, etc.) into. By default this will be the name of the document with _files appended to it.	
<pre>md_extensions</pre>	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.	
pandoc_args	Additional command line options to pass to pandoc	
extra_dependencies		
	Extra dependencies as a list of the html_dependency class objects typically generated by htmltools:htmlDependency().	
	Additional function arguments to pass to the base R Markdown HTML output formatter html_document_base	

Details

See the online documentation for additional details on using the ioslides_presentation format.

Note that, if a before_body include is specified in includes, then it will replace the standard title slide entirely.

Regarding previewing slide in RStudio IDE, ioslides_presentation() will always open preview in a new Window and the RStudio IDE configuration "Open in Viewer Pane" will have no effect for this format.

Value

R Markdown output format to pass to render().

Slide Basics

You can create a slide show broken up into sections by using the # and ## heading tags (you can also create a new slide without a header using a horizontal rule (-----). For example here's a simple slide show:

```
---
title: "Habits"
author: John Doe
date: March 22, 2005
output: ioslides_presentation
---
# In the morning
## Getting up
- Turn off alarm
```

```
- Get out of bed
```

Breakfast

- Eat eggs

- Drink coffee
- # In the evening

Dinner

- Eat spaghetti
- Drink wine

![picture of spaghetti](images/spaghetti.jpg)

Going to sleep

Get in bedCount sheep

You can add a subtitle to a slide or section by including text after the pipe (l) character. For example:

Getting up | What I like to do first thing

Display Modes

The following single character keyboard shortcuts enable alternate display modes:

- 'f' enable fullscreen mode
- 'w' toggle widescreen mode
- 'o' enable overview mode
- 'h' enable code highlight mode
- 'p' show presenter notes

Pressing Esc exits all of these modes. See the sections below on *Code Highlighting* and *Presenter Mode* for additional detail on those modes.

Incremental Bullets

You can render bullets incrementally by adding the incremental option:

```
---
output:
ioslides_presentation:
incremental: true
```

44

If you want to render bullets incrementally for some slides but not others you can use this syntax:

> - Eat eggs
> - Drink coffee

Presentation Size

You can display the presentation using a wider form factor using the widescreen option. You can specify that smaller text be used with the smaller option. For example:

```
---
output:
ioslides_presentation:
widescreen: true
smaller: true
```

You can also enable the smaller option on a slide-by-slide basis by adding the .smaller attribute to the slide header:

```
## Getting up {.smaller}
```

Adding a Logo

You can add a logo to the presentation using the logo option (the logo should be square and at least 128x128). For example:

```
---
output:
ioslides_presentation:
logo: logo.png
```

A 128x128 version of the logo graphic will be added to the title slide and an icon version of the logo will be included in the bottom-left footer of each slide.

Build Slides

Slides can also have a .build attribute that indicate that their content should be displayed incrementally. For example:

```
## Getting up {.build}
```

Slide attributes can be combined if you need to specify more than one, for example:

Getting up {.smaller .build}

Code Highlighting

It's possible to select subsets of code for additional emphasis by adding a special "highlight" comment around the code. For example:

 x <- 10 y <- x * 2 ###

The highlighted region will be displayed with a bold font. When you want to help the audience focus exclusively on the highlighted region press the 'h' key and the rest of the code will fade away.

Tables

The ioslides template has an attractive default style for tables so you shouldn't hesitate to add tables for presenting more complex sets of information. Pandoc markdown supports several syntaxes for defining tables which are described in the pandoc online documentation.

Advanced Layout

You can center content on a slide by adding the .flexbox and .vcenter attributes to the slide title. For example:

```
## Dinner {.flexbox .vcenter}
```

You can horizontally center content by enclosing it in a div tag with class centered. For example:

```
<div class="centered">
This text is centered.
</div>
```

You can do a two-column layout using the columns-2 class. For example:

```
<div class="columns-2">

![Image](image.png)

- Bullet 1

- Bullet 2

- Bullet 3

</div>
```

Note that content will flow across the columns so if you want to have an image on one side and text on the other you should make sure that the image has sufficient height to force the text to the other side of the slide.

46

ioslides_presentation

Text Color

You can color content using base color classes red, blue, green, yellow, and gray (or variations of them e.g. red2, red3, blue2, blue3, etc.). For example:

<div class="red2"> This text is red </div>

Presenter Mode

A separate presenter window can also be opened (ideal for when you are presenting on one screen but have another screen that's private to you). The window stays in sync with the main presentation window and also shows presenter notes and a thumbnail of the next slide. To enable presenter mode add ?presentme=true to the URL of the presentation, for example:

mypresentation.html?presentme=true

The presenter mode window will open and will always re-open with the presentation until it's disabled with:

mypresentation.html?presentme=false

To add presenter notes to a slide you include it within a "notes" div. For example:

```
<div class="notes">
This is my *note*.
- It can contain markdown
- like this list
```

</div>

Printing and PDF Output

You can print an ioslides presentation from within browsers that have good support for print CSS (i.e. as of this writing Google Chrome has the best support). Printing maintains most of the visual styles of the HTML version of the presentation.

To create a PDF version of a presentation you can use Print to PDF from Google Chrome.

knitr_options

Description

Define the knitr options for an R Markdown output format.

Usage

```
knitr_options(
    opts_knit = NULL,
    opts_chunk = NULL,
    knit_hooks = NULL,
    opts_hooks = NULL,
    opts_template = NULL
)
```

Arguments

opts_knit	List of package level knitr options (see opts_knit)
opts_chunk	List of chunk level knitr options (see opts_chunk)
knit_hooks	List of hooks for R code chunks, inline R code, and output (see knit_hooks)
opts_hooks	List of hooks for code chunk options (see opts_hooks)
opts_template	List of templates for chunk level knitr options (see opts_template)

Value

An list that can be passed as the knitr argument of the output_format function.

See Also

output_format

knitr_options_html Knitr options for an HTML output format

Description

Define knitr options for an R Markdown output format that creates HTML output.

Usage

```
knitr_options_html(fig_width, fig_height, fig_retina, keep_md, dev = "png")
```

Arguments

fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_retina	Scaling to perform for retina displays (defaults to 2, which currently works for all widely used retina displays). Set to NULL to prevent retina scaling. Note that this will always be NULL when keep_md is specified (this is because fig_retina relies on outputting HTML directly into the markdown document).
keep_md	Keep the markdown file generated by knitting.
dev	Graphics device to use for figure output (defaults to png)

Value

An list that can be passed as the knitr argument of the output_format function.

See Also

knitr_options, output_format

knitr_options_pdf *Knitr options for a PDF output format*

Description

Define knitr options for an R Markdown output format that creates PDF output.

Usage

```
knitr_options_pdf(fig_width, fig_height, fig_crop, dev = "pdf")
```

Arguments

fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_crop	Whether to crop PDF figures with the command pdfcrop. This requires the tools pdfcrop and ghostscript to be installed. By default, fig_crop = TRUE if these two tools are available.
dev	Graphics device to use for figure output (defaults to png)

Value

An list that can be passed as the knitr argument of the output_format function.

See Also

knitr_options, output_format

knit_params_ask

Description

Run a shiny application asking for parameter configuration for the given document.

Usage

```
knit_params_ask(
  file = NULL,
  input_lines = NULL,
  params = NULL,
  shiny_args = NULL,
  save_caption = "Save",
  encoding = "UTF-8"
)
```

Arguments

file	Path to the R Markdown document with configurable parameters.
input_lines	Content of the R Markdown document. If NULL, the contents of file will be read.
params	A named list of optional parameter overrides used in place of the document defaults.
shiny_args	Additional arguments to runApp.
save_caption	Caption to use use for button that saves/confirms parameters.
encoding	Ignored. The encoding is always assumed to be UTF-8.

Value

named list with overridden parameter names and value.

latex-dependencies Provide common LaTeX dependencies

Description

These functions provide common LaTeX dependencies (e.g. tikz) for R Markdown formats that use LaTeX.

Usage

```
latex_dependency_tikz(libraries, options = NULL, extra_lines = NULL)
```

latex_dependency

Arguments

libraries	A character vector of tikz libraries to load
options	The LaTeX options for the package
extra_lines	LaTeX code related to the package added to the preamble

latex_dependency Define a LaTeX package dependency

Description

Define a LaTeX package dependency

Usage

```
latex_dependency(name, options = NULL, extra_lines = NULL)
```

Arguments

name	The LaTeX package name
options	The LaTeX options for the package
extra_lines	LaTeX code related to the package added to the preamble

md_document	Convert to a markdown document	
-------------	--------------------------------	--

Description

Format for converting from R Markdown to another variant of markdown (e.g. strict markdown or github flavored markdown)

Usage

```
md_document(
  variant = "markdown_strict",
  preserve_yaml = FALSE,
  toc = FALSE,
  toc_depth = 3,
  number_sections = FALSE,
  standalone = FALSE,
  fig_width = 7,
  fig_height = 5,
  fig_retina = NULL,
  dev = "png",
  df_print = "default",
```

```
includes = NULL,
md_extensions = NULL,
pandoc_args = NULL,
ext = ".md"
)
```

variant	Markdown variant to produce (defaults to "markdown_strict"). Other valid values are "commonmark", "gfm", "commonmark_x", "markdown_mmd", markdown_phpextra", "markdown_github", or even "markdown" (which produces pandoc markdown). You can also compose custom markdown variants, see the pandoc online documentation for details.
preserve_yaml	Preserve YAML front matter in final document.
toc	TRUE to include a table of contents in the output
toc_depth	Depth of headers to include in table of contents
number_sections	
	TRUE to number section headings
standalone	Set to TRUE to include title, date and other metadata field in addition to Rmd content as a body.
fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_retina	Scaling to perform for retina displays. Defaults to NULL which performs no scaling. A setting of 2 will work for all widely used retina displays, but will also result in the output of tags rather than markdown images due to the need to set the width of the image explicitly.
dev	Graphics device to use for figure output (defaults to png)
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.
includes	Named list of additional content to include within the document (typically created using the includes function).
md_extensions	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.
pandoc_args	Additional command line options to pass to pandoc
ext	Extension of the output file (defaults to ".md").

metadata

Details

See the online documentation for additional details on using the md_document() format.

R Markdown documents can have optional metadata that is used to generate a document header that includes the title, author, and date. For more details see the documentation on R Markdown metadata.

Value

R Markdown output format to pass to render()

Examples

```
## Not run:
library(rmarkdown)
render("input.Rmd", md_document())
render("input.Rmd", md_document(variant = "markdown_github"))
## End(Not run)
```

metadata

The YAML metadata of the current R Markdown document

Description

The object metadata stores the YAML metadata of the current R Markdown document as a list, which you may use in the R code chunks, e.g. rmarkdown::metadata\$title (the title of the document), rmarkdown::metadata\$author, and rmarkdown::metadata\$foo (if you have a YAML field named foo), etc.

Format

An object of class list of length 0.

Examples

rmarkdown::metadata

odt_document

Description

Format for converting from R Markdown to an ODT document.

Usage

```
odt_document(
   number_sections = FALSE,
   fig_width = 5,
   fig_height = 4,
   fig_caption = TRUE,
   template = "default",
   reference_odt = "default",
   includes = NULL,
   keep_md = FALSE,
   md_extensions = NULL,
   pandoc_args = NULL
)
```

Arguments

number_sections

	TRUE to number section headings	
fig_width	Default width (in inches) for figures	
fig_height	Default height (in inches) for figures	
fig_caption	TRUE to render figures with captions	
template	Pandoc template to use for rendering. Pass "default" to use the rmarkdown pack- age default template; pass NULL to use pandoc's built-in template; pass a path to use a custom template that you've created. See the documentation on pandoc online documentation for details on creating custom templates.	
reference_odt	Use the specified file as a style reference in producing an odt file. For best results, the reference odt should be a modified version of an odt file produced using pandoc. Pass "default" to use the rmarkdown default styles.	
includes	Named list of additional content to include within the document (typically cre- ated using the includes function).	
keep_md	Keep the markdown file generated by knitting.	
md_extensions	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.	
pandoc_args	Additional command line options to pass to pandoc	

output_format

Details

See the online documentation for additional details on using the odt_document format.

R Markdown documents can have optional metadata that is used to generate a document header that includes the title, author, and date. For more details see the documentation on R Markdown metadata.

R Markdown documents also support citations. You can find more information on the markdown syntax for citations in the **Bibliographies and Citations** article in the online documentation.

Value

R Markdown output format to pass to render

Examples

```
## Not run:
library(rmarkdown)
# simple invocation
render("input.Rmd", odt_document())
# specify an option for syntax highlighting
render("input.Rmd", odt_document(highlight = "zenburn"))
## End(Not run)
```

output_format Define an R Markdown output format

Description

Define an R Markdown output format based on a combination of knitr and pandoc options.

Usage

```
output_format(
    knitr,
    pandoc,
    keep_md = FALSE,
    clean_supporting = TRUE,
    df_print = NULL,
    pre_knit = NULL,
    pre_processor = NULL,
    intermediates_generator = NULL,
    on_exit = NULL,
    file_scope = NULL,
    base_format = NULL
)
```

knitr	Knitr options for an output format (see knitr_options)
pandoc	Pandoc options for an output format (see pandoc_options)
keep_md	Keep the markdown file generated by knitting. Note that if this is TRUE then
keep_liiu	clean_supporting will always be FALSE.
clean_supportin	-
	Cleanup any supporting files after conversion see render_supporting_files
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.
pre_knit	An optional function that runs before knitting which receives the input (input filename passed to render), metadata (the parsed front matter of the Rmd file) and (for future expansion) arguments. This function can be used to add side effects before knitting step.
post_knit	An optional function that runs after knitting which receives the metadata, input_file, runtime, and (for future expansion) arguments. This function can return additional arguments to pass to pandoc and can call knitr::knit_meta_add to add additional dependencies based on the contents of the input_file or on other assets side by side with it that may be used to produce html with dependencies during subsequent processing.
pre_processor	An optional pre-processor function that receives the metadata, input_file, runtime, knit_meta, files_dir, and output_dir and can return additional arguments to pass to pandoc.
intermediates_g	generator
	An optional function that receives the original input_file, and the intermedi- ates directory (i.e. the intermediates_dir argument to render). The function should generate and return the names of any intermediate files required to render the input_file.
post_processor	An optional post-processor function that receives the metadata, input_file, output_file, clean, and verbose parameters, and can return an alternative output_file.
on_exit	A function to call when rmarkdown::render() finishes execution (as registered with a on.exit handler).
file_scope	A function that will split markdown input to pandoc into multiple named files. This is useful when the caller has concatenated a set of Rmd files together (as bookdown does), and those files may need to processed by pandoc using thefile-scope option. The first argument is input file paths and the second is NULL or current file scope which is a named list of files w/ name and content for

each file. The return is the new file scope. Also, the arguments should include . . . for the future extensions.

base_format An optional format to extend.

Value

An R Markdown output format definition that can be passed to render.

See Also

render, knitr_options, pandoc_options

Examples

End(Not run)

output_format_dependency

Define and merge an R Markdown's output format dependency

Description

Define and merge a dependency such as pre/post-processors from within chunks. The merge happens explicitly when a list of dependencies are passed to knitr::knit_meta_add() or implicitly when a dependency is knitr::knit_printed. Defining a function that does the former is the best way for package developers to share the dependency. On the contrary, the latter is useful to declare a document-specific dependency. This function shares some arguments with output_format, but lacks the others because dependency is resolved after post_knit and before pre_processor.

Usage

```
output_format_dependency(
  name,
  pandoc = list(),
  pre_processor = NULL,
  post_processor = NULL,
  file_scope = NULL,
  on_exit = NULL
)
```

Arguments

name	A dependency name. If some dependencies share the same name, then only the first one will be merged to the output format.
pandoc	Pandoc options for an output format (see pandoc_options)
pre_processor	An optional pre-processor function that receives the metadata, input_file, runtime, knit_meta, files_dir, and output_dir and can return additional arguments to pass to pandoc.
post_processor	An optional post-processor function that receives the metadata, input_file, output_file, clean, and verbose parameters, and can return an alternative output_file.
file_scope	A function that will split markdown input to pandoc into multiple named files. This is useful when the caller has concatenated a set of Rmd files together (as bookdown does), and those files may need to processed by pandoc using thefile-scope option. The first argument is input file paths and the second is NULL or current file scope which is a named list of files w/ name and content for each file. The return is the new file scope. Also, the arguments should include for the future extensions.
on_exit	A function to call when rmarkdown::render() finishes execution (as registered with a on.exit handler).

Value

An list of arguments with the "rmd_dependency" class.

Examples

```
# Implicitly add lua filters from within a chunk
# This relies on (implicit) printing of the dependency in a chunk via
# knitr::knit_print()`
output_format_dependency(
  "lua_filter1",
  pandoc = list(lua_filters = "example1.lua")
)
# Explicitly add lua filters from within a chunk
knitr::knit_meta_add(list(output_format_dependency(
  "lua_filter2",
  pandoc = list(lua_filters = "example2.lua")
)))
# List the available dependencies
# Note that the list may include dependencies with duplicated names. In that
# case, the first one is merged to the output format and the others are
# discarded.
str(knitr::knit_meta("output_format_dependency", clean = FALSE))
```

output_metadata

Description

This object provides a mechanism for users to attach metadata as an attribute (named rmd_output_metadata) of the returned value of render(). The initial value of the metadata comes from in the rmd_output_metadata field of the YAML frontmatter of an R Markdown document. The metadata can be queried via the output_metadata\$get() method, and modified via the output_metadata\$set() method.

paged_table

Create a table in HTML with support for paging rows and columns

Description

Create a table in HTML with support for paging rows and columns

Usage

paged_table(x, options = NULL)

Arguments

х	a data frame to be rendered as a paged table.
options	options for printing the paged table. See details for specifics.

Details

Below are the recognized table pagination options.

Option	Description	Default
max.print	The number of rows to print.	1000
sql.max.print	The number of rows to print from a SQL data table.	1000
rows.print	The number of rows to display.	10
cols.print	The number of columns to display.	10
cols.min.print	The minimum number of columns to display.	-
pages.print	The number of pages to display under page navigation.	-
paged.print	When set to FALSE turns off paged tables.	TRUE
rownames.print	When set to FALSE turns off row names.	TRUE

Note: There is a hard cap of 10,000 rows to ensure that pandoc will not fail when rendering the document.

pandoc_args

Description

Functions that assist in creating various types of pandoc command line arguments (e.g. for templates, table of contents, highlighting, and content includes).

Usage

```
pandoc_variable_arg(name, value)
```

pandoc_metadata_arg(name, value)

pandoc_metadata_file_arg(file)

```
pandoc_include_args(in_header = NULL, before_body = NULL, after_body = NULL)
```

```
pandoc_highlight_args(highlight, default = "tango")
```

```
pandoc_latex_engine_args(latex_engine)
```

```
pandoc_toc_args(toc, toc_depth = 3)
```

pandoc_citeproc_args()

```
pandoc_lua_filter_args(lua_files)
```

name	Name of template variable to set.
value	Value of template variable (defaults to true if missing).
file	string. Path to a file
in_header	One or more files with content to be included in the header of the document.
before_body	One or more files with content to be included before the document body.
after_body	One or more files with content to be included after the document body.
highlight	The name of a pandoc syntax highlighting theme.
default	The highlighting theme to use if "default" is specified.
latex_engine	LaTeX engine for producing PDF output. Options are "pdflatex", "lualatex", "xelatex", and "tectonic".
toc	TRUE to include a table of contents in the output.
toc_depth	Depth of headers to include in table of contents.
lua_files	Character vector of file paths to Lua filter files. Paths will be transformed by pandoc_path_arg.

pandoc_available

Details

Non-absolute paths for resources referenced from the in_header, before_body, and after_body parameters are resolved relative to the directory of the input document.

Value

A character vector with pandoc command line arguments.

About Pandoc citeproc

For Pandoc version before 2.11, a pandoc filter 'pandoc-citeproc' is used. Since Pandoc 2.11, the feature is built-in and activated using '--citeproc' flag. 'pandoc_citeproc_arg' will return the correct switches depending on the Pandoc version in use.

Examples

```
## Not run:
library(rmarkdown)
pandoc_include_args(before_body = "header.htm")
pandoc_include_args(before_body = "header.tex")
pandoc_highlight_args("kate")
pandoc_latex_engine_args("pdflatex")
pandoc_toc_args(toc = TRUE, toc_depth = 2)
## End(Not run)
```

pandoc_available Check pandoc availability and version

Description

Determine whether pandoc is currently available on the system (optionally checking for a specific version or greater). Determine the specific version of pandoc available.

Usage

```
pandoc_available(version = NULL, error = FALSE)
```

pandoc_version()

version	Required version of pandoc
error	Whether to signal an error if pandoc with the required version is not found

Details

The system environment variable 'PATH' as well as the version of pandoc shipped with RStudio (its location is set via the environment variable 'RSTUDIO_PANDOC' by RStudio products like the RStudio IDE, RStudio Server, Shiny Server, and RStudio Connect, etc) are scanned for pandoc and the highest version available is used. Please do not modify the environment variable 'RSTUDIO_PANDOC' unless you know what it means.

Value

pandoc_available returns a logical indicating whether the required version of pandoc is available. pandoc_version returns a numeric_version with the version of pandoc found.

Examples

```
## Not run:
library(rmarkdown)
```

```
if (pandoc_available())
    cat("pandoc", as.character(pandoc_version()), "is available!\n")
```

```
if (pandoc_available("1.12.3"))
  cat("required version of pandoc is available!\n")
```

```
## End(Not run)
```

pandoc_citeproc_convert

Convert a bibliograpy file

Description

Convert a bibliography file (e.g. a BibTeX file) to an R list, JSON text, or YAML text

Usage

```
pandoc_citeproc_convert(file, type = c("list", "json", "yaml"))
```

Arguments

file	Bibliography file
type	Conversion type

Value

For 'type = "list"', and R list. For 'type = "json"' or 'type = "yaml"', a character vector with the specified format.

62

pandoc_convert

Description

Convert documents to and from various formats using the pandoc utility.

Usage

```
pandoc_convert(
    input,
    to = NULL,
    from = NULL,
    output = NULL,
    citeproc = FALSE,
    options = NULL,
    verbose = FALSE,
    wd = NULL
)
```

Arguments

input	Character vector containing paths to input files (files must be UTF-8 encoded)
to	Format to convert to (if not specified, you must specify output)
from	Format to convert from (if not specified then the format is determined based on the file extension of input).
output	Output file (if not specified then determined based on format being converted to).
citeproc	TRUE to run the pandoc-citeproc filter (for processing citations) as part of the conversion.
options	Character vector of command line options to pass to pandoc.
verbose	TRUE to show the pandoc command line which was executed
wd	Working directory in which code will be executed. If not supplied, defaults to the common base directory of input.

Details

Supported input and output formats are described in the pandoc user guide.

The system path as well as the version of pandoc shipped with RStudio (if running under RStudio) are scanned for pandoc and the highest version available is used.

Examples

```
## Not run:
library(rmarkdown)
# convert markdown to various formats
pandoc_convert("input.md", to = "html")
pandoc_convert("input.md", to = "latex")
# process citations
pandoc_convert("input.md", to = "html", citeproc = TRUE)
# add some pandoc options
pandoc_convert("input.md", to = "latex", options = c("--listings"))
## End(Not run)
```

pandoc_exec

Get the path of the pandoc executable

Description

Returns the path of the pandoc executable used by functions in the the **rmarkdown** package. This is the most recent version of pandoc found in either the system path or shipped with RStudio.

Usage

```
pandoc_exec()
```

Details

See the pandoc manual for pandoc commands.

pandoc_options

Pandoc options for an output format

Description

Define the pandoc options for an R Markdown output format.

64

pandoc_options

Usage

```
pandoc_options(
   to,
   from = rmarkdown_format(),
   args = NULL,
   keep_tex = FALSE,
   latex_engine = c("pdflatex", "lualatex", "xelatex", "tectonic"),
   ext = NULL,
   lua_filters = NULL,
   convert_fun = NULL
)
```

Arguments

to	Pandoc format to convert to
from	Pandoc format to convert from
args	Character vector of command line arguments to pass to pandoc
keep_tex	Keep the intermediate tex file used in the conversion to PDF (applies only to 'latex' and 'beamer' target formats)
latex_engine	LaTeX engine to producing PDF output (applies only to 'latex' and 'beamer' target formats)
ext	File extension (e.g. ".tex") for output file (if NULL chooses default based on to). This is typically used to force the final output of a latex or beamer conversion to be .tex rather than .pdf.
lua_filters	Character vector of file paths to Lua filters to use with this format. They will be added to pandoc command line call usinglua-filter argument. See vignette("lua-filters", package = "rmarkdown") to know more about Lua filters.
convert_fun	A function to convert the input file to the desired output format in render(). If not provided, pandoc_convert() will be used. If a custom function is provided, its arguments and returned value should match the pandoc_convert() function. Note that this function does not have to use Pandoc but can also use other tools such as commonmark .

Details

The from argument should be used very cautiously as it's important for users to be able to rely on a stable definition of supported markdown extensions.

Value

An list that can be passed as the pandoc argument of the output_format function.

See Also

output_format, rmarkdown_format

pandoc_path_arg

Description

Transform a path for passing to pandoc on the command line. Calls path.expand on all platforms. On Windows, transform it to a short path name if it contains spaces, and then convert forward slashes to back slashes (as required by pandoc for some path references).

Usage

```
pandoc_path_arg(path, backslash = TRUE)
```

Arguments

path	Path to transform
backslash	Whether to replace forward slashes in path with backslashes on Windows.

Value

Transformed path that can be passed to pandoc on the command line.

```
pandoc_self_contained_html
```

Create a self-contained HTML document using pandoc.

Description

Create a self-contained HTML document by base64 encoding images, scripts, and stylesheets referred by the input document.

Usage

```
pandoc_self_contained_html(input, output)
```

Arguments

input	Input html file to create self-contained version of.
output	Path to save output.

Value

(Invisibly) The path of the generated file.

pandoc_template Render a pandoc template.

Description

Use the pandoc templating engine to render a text file. Substitutions are done using the metadata list passed to the function.

Usage

```
pandoc_template(metadata, template, output, verbose = FALSE)
```

Arguments

metadata	A named list containing metadata to pass to template.
template	Path to a pandoc template.
output	Path to save output.
verbose	TRUE to show the pandoc command line which was executed.

Value

(Invisibly) The path of the generated file.

parse_html_notebook Parse an HTML Notebook

Description

Parse an HTML notebook, retrieving annotation information related to generated outputs in the document, as well as the original R Markdown source document.

Usage

```
parse_html_notebook(path)
```

Arguments

path The path to an R Notebook file (with extension .nb.html).

Details

See the online documentation for additional details on using the html_notebook format.

pdf_document

Description

Formats for converting from R Markdown to a PDF or LaTeX document.

Usage

```
pdf_document(
  toc = FALSE,
  toc_depth = 2,
  number_sections = FALSE,
  fig_width = 6.5,
  fig_height = 4.5,
  fig_crop = "auto",
  fig_caption = TRUE,
  dev = "pdf",
  df_print = "default",
  highlight = "default",
  template = "default",
  keep_tex = FALSE,
  keep_md = FALSE,
  latex_engine = "pdflatex",
  citation_package = c("default", "natbib", "biblatex"),
  includes = NULL,
 md_extensions = NULL,
  output_extensions = NULL,
 pandoc_args = NULL,
  extra_dependencies = NULL
)
latex_document(...)
latex_fragment(...)
```

toc	TRUE to include a table of contents in the output
toc_depth	Depth of headers to include in table of contents
number_sections	
	TRUE to number section headings
fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures

fig_crop	Whether to crop PDF figures with the command pdfcrop. This requires the tools pdfcrop and ghostscript to be installed. By default, fig_crop = TRUE if these two tools are available.
fig_caption	TRUE to render figures with captions
dev	Graphics device to use for figure output (defaults to pdf)
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.
highlight	Syntax highlighting style passed to Pandoc. Supported built-in styles include "default", "tango", "pygments", "kate", "monochrome", "espresso", "zenburn", "haddock", and "breezedark".
	Two custom styles are also included, "arrow", an accessible color scheme, and "rstudio", which mimics the default IDE theme. Alternatively, supply a path to a '. theme' file to use a custom Pandoc style. Note that custom theme requires Pandoc 2.0+.
	Pass NULL to prevent syntax highlighting.
template	Pandoc template to use for rendering. Pass "default" to use the rmarkdown pack- age default template; pass NULL to use pandoc's built-in template; pass a path to use a custom template that you've created. See the documentation on pandoc online documentation for details on creating custom templates.
keep_tex	Keep the intermediate tex file used in the conversion to PDF. Note that this argument does not control whether to keep the auxiliary files (e.g., '.aux') generated by LaTeX when compiling '.tex' to '.pdf'. To keep these files, you may set options(tinytex.clean = FALSE).
keep_md	Keep the markdown file generated by knitting.
latex_engine	LaTeX engine for producing PDF output. Options are "pdflatex", "lualatex", "xelatex" and "tectonic".
citation_packag	
	The LaTeX package to process citations, natbib or biblatex. Use default if neither package is to be used, which means citations will be processed via the command pandoc-citeproc.
includes	Named list of additional content to include within the document (typically created using the includes function).
md_extensions	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.
output_extensio	ns Pandoc extensions to be added or removed from the output format, e.g., "-smart" means the output format will be latex-smart.

pandoc_args	Additional command line options to pass to pandoc
extra_dependencies	
	A LaTeX dependency latex_dependency(), a list of LaTeX dependencies, a character vector of LaTeX package names (e.g. c("framed", "hyperref")), or a named list of LaTeX package options with the names being package names (e.g. list(hyperef = c("unicode=true", "breaklinks=true"), lmodern = NULL)). It can be used to add custom LaTeX packages to the .tex header.
	Arguments passed to pdf_document().

Details

See the online documentation for additional details on using the pdf_document format.

Creating PDF output from R Markdown requires that LaTeX be installed.

R Markdown documents can have optional metadata that is used to generate a document header that includes the title, author, and date. For more details see the documentation on R Markdown metadata.

R Markdown documents also support citations. You can find more information on the markdown syntax for citations in the **Bibliographies and Citations** article in the online documentation.

Many aspects of the LaTeX template used to create PDF documents can be customized using metadata. For example:

> title: "Crop Analysis Q3 2013" fontsize: 11pt geometry: margin=1in

Available metadata variables include:

lang Document language code (e.g. "es", "fr", "pt-BR")

fontsize Font size (e.g. 10pt, 11pt, 12pt)

documentclass LaTeX document class (e.g. article)

classoption Option for documentclass (e.g. oneside); may be repeated

geometry Options for geometry class (e.g. margin=1in); may be repeated

- mainfont, sansfont, monofont, mathfont Document fonts (works only with xelatex and lualatex, see the latex_engine option)
- linkcolor, urlcolor, citecolor Color for internal, external, and citation links (red, green, magenta, cyan, blue, black)

linestretch Options for line spacing (e.g. 1, 1.5, 3)

Value

R Markdown output format to pass to render

pkg_file_lua

Examples

```
## Not run:
library(rmarkdown)
# simple invocation
render("input.Rmd", pdf_document())
# specify an option for latex engine
render("input.Rmd", pdf_document(latex_engine = "lualatex"))
# add a table of contents and pass an option to pandoc
render("input.Rmd", pdf_document(toc = TRUE, "--listings"))
## End(Not run)
```

pkg_file_lua

Get the full paths of Lua filters in an R package

Description

Lua filters stored in a source package in the 'inst/rmarkdown/lua' directory will be installed to the 'rmarkdown/lua' directory in the package path. This function finds the full paths of the Lua filters in the installed packages.

Usage

pkg_file_lua(filters = NULL, package = "rmarkdown")

Arguments

filters	A character vector of filenames for Lua filters to be retrieved in 'rmarkdown/lua' folder of the package. By default (NULL), if none is provided, it returns all filters
	in that folder.
package	The name of the package in which to look for the filters.

Value

A character vector of absolute file paths for the Lua filter from the package. The returned paths have been processed by pandoc_path_arg(), so they are ready to be used by Pandoc.

Examples

```
# list all Lua filters stored in the rmarkdown package
pkg_file_lua()
# get a specific filter
pkg_file_lua(c("pagebreak.lua", "latex_div.lua"))
```

powerpoint_presentation

Convert to a PowerPoint presentation

Description

Format for converting from R Markdown to a PowerPoint presentation. Pandoc v2.0.5 or above is required.

Usage

```
powerpoint_presentation(
  toc = FALSE,
  toc_depth = 2,
  number_sections = FALSE,
  incremental = FALSE,
  fig_width = 5,
  fig_height = 4,
  fig_caption = TRUE,
  df_print = "default",
  keep_md = FALSE,
  md_extensions = NULL,
  slide_level = NULL,
  reference_doc = "default",
  pandoc_args = NULL
)
```

toc	TRUE to include a table of contents in the output
toc_depth	Depth of headers to include in table of contents
number_sections	5
	TRUE to number section headings
incremental	TRUE to render slide bullets incrementally. Note that if you want to reverse the default incremental behavior for an individual bullet you can precede it with >. For example: > - Bullet Text. See more in Pandoc's Manual
fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_caption	TRUE to render figures with captions
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In

	addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.
keep_md	Keep the markdown file generated by knitting.
<pre>md_extensions</pre>	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.
slide_level	The heading level which defines individual slides. By default this is the highest header level in the hierarchy that is followed immediately by content, and not another header, somewhere in the document. This default can be overridden by specifying an explicit slide_level.
reference_doc	Path to a PowerPoint template.
pandoc_args	Additional command line options to pass to pandoc

Value

R Markdown output format to pass to render()

publish_site

Publish an R Markdown Website

Description

Publish a website to RStudio Connect

Usage

```
publish_site(
   site_dir = ".",
   site_name = NULL,
   method = c("rsconnect"),
   server = NULL,
   account = NULL,
   render = TRUE,
   launch_browser = interactive()
)
```

Arguments

site_dir	Directory containing website. Defaults to current working directory.
site_name	Name for the site (names must be unique within an account). Defaults to the 'name' provided by the site generator (or to the name of the site_dir if there is no 'name' specified).
method	Publishing method (currently only "rsconnect" is available)

account, server	Uniquely identify a remote server with either your user account, the server name, or both. If neither are supplied, and there are multiple options, you'll be prompted to pick one.
	Use accounts() to see the full list of available options.
render	'TRUE' to render the site locally before publishing.
launch_browser	If 'TRUE', the system's default web browser will be launched automatically after the site is deployed. Defaults to 'TRUE' in interactive sessions only.

Examples

Not run: library(rmarkdown) publish_site()

End(Not run)

relative_to

Relative path utility function

Description

Given a directory and a file, return a relative path from the directory to the file, or the unmodified file path if the file does not appear to be in the directory.

Usage

relative_to(dir, file)

Arguments

dir	Directory
file	File

Value

Relative path from the directory to the file (or the unmodified file path if the file does not appear to be in the directory).

render

Description

Render the input file to the specified output format using pandoc. If the input requires knitting then knit is called prior to pandoc.

Usage

```
render(
  input,
 output_format = NULL,
 output_file = NULL,
 output_dir = NULL,
 output_options = NULL,
 output_yam1 = NULL,
  intermediates_dir = NULL,
  knit_root_dir = NULL,
  runtime = c("auto", "static", "shiny", "shinyrmd", "shiny_prerendered"),
 clean = TRUE,
 params = NULL,
 knit_meta = NULL,
  envir = parent.frame(),
  run_pandoc = TRUE,
 quiet = FALSE,
 encoding = "UTF-8"
)
```

Arguments

input	The input file to be rendered. This can be an R script (.R), an R Markdown document (.Rmd), or a plain markdown document.
output_format	The R Markdown output format to convert to. The option "all" will render all formats defined within the file. The option can be the name of a format (e.g. "html_document") and that will render the document to that single format. One can also use a vector of format names to render to multiple formats. Alterna- tively, you can pass an output format object (e.g. html_document()). If using NULL then the output format is the first one defined in the YAML frontmatter in the input file (this defaults to HTML if no format is specified there). If you pass an output format object to output_format, the options specified in the YAML header or _output.yml will be ignored and you must explicitly set all the op- tions you want when you construct the object. If you pass a string, the output format will use the output parameters in the YAML header or _output.yml.
output_file	The name of the output file. If using NULL then the output filename will be based on filename for the input file. If a filename is provided, a path to the

	output file can also be provided. Note that the output_dir option allows for specifying the output file path as well, however, if also specifying the path, the directory must exist. If output_file is specified but does not have a file extension, an extension will be automatically added according to the output format. To avoid the automatic file extension, put the output_file value in I(), e.g., I('my-output').
output_dir	The output directory for the rendered output_file. This allows for a choice of an alternate directory to which the output file should be written (the default output directory of that of the input file). If a path is provided with a filename in output_file the directory specified here will take precedence. Please note that any directory path provided will create any necessary directories if they do not exist.
output_options	List of output options that can override the options specified in metadata (e.g. could be used to force self_contained or mathjax = "local"). Note that this is only valid when the output format is read from metadata (i.e. not a custom format object passed to output_format).
output_yaml	Paths to YAML files specifying output formats and their configurations. The first existing one is used. If none are found, then the function searches YAML files specified to the output_yaml top-level parameter in the YAML front matter, _output.yml or _output.yaml, and then uses the first existing one.
intermediates_c	lir
	Intermediate files directory. If a path is specified then intermediate files will be written to that path. If NULL, intermediate files are written to the same directory as the input file.
knit_root_dir	The working directory in which to knit the document; uses knitr's root.dir knit option. If NULL then the behavior will follow the knitr default, which is to use the parent directory of the document.
runtime	The runtime target for rendering. The static option produces output intended for static files; shiny produces output suitable for use in a Shiny document (see run). The default, auto, allows the runtime target specified in the YAML metadata to take precedence, and renders for a static runtime target otherwise.
clean	Using TRUE will clean intermediate files that are created during rendering.
params	A list of named parameters that override custom params specified within the YAML front-matter (e.g. specifying a dataset to read or a date range to confine output to). Pass "ask" to start an application that helps guide parameter configuration.
knit_meta	(This option is reserved for expert use.) Metadata generated by knitr.
envir	The environment in which the code chunks are to be evaluated during knitting (can use new.env() to guarantee an empty new environment).
run_pandoc	An option for whether to run pandoc to convert Markdown output.
quiet	An option to suppress printing during rendering from knitr, pandoc command line and others. To only suppress printing of the last "Output created: " message, you can set rmarkdown.render.message to FALSE
encoding	Ignored. The encoding is always assumed to be UTF-8.

render

Details

Note that the **knitr** error option is set to FALSE during rendering (which is different from the **knitr** default value of TRUE).

For additional details on rendering R scripts see Compiling R scripts to a notebook.

If no output_format parameter is specified then the output format is read from the YAML frontmatter of the input file. For example, the following YAML would yield a PDF document:

```
output: pdf_document
```

Additional format options can also be specified in metadata. For example:

```
output:

pdf_document:

toc: true

highlight: zenburn
```

Multiple formats can be specified in metadata. If no output_format is passed to render then the first one defined will be used:

```
output:
   pdf_document:
     toc: true
     highlight: zenburn
   html_document:
     toc: true
     theme: united
```

Formats specified in metadata can be any one of the built in formats (e.g. html_document, pdf_document) or a format defined in another package (e.g. pkg::custom_format).

If there is no format defined in the YAML then html_document will be used.

Value

When run_pandoc = TRUE, the compiled document is written into the output file, and the path of the output file is returned. When run_pandoc = FALSE, the path of the Markdown output file, with attributes knit_meta (the **knitr** meta data collected from code chunks) and intermediates (the intermediate files/directories generated by render()).

R Markdown

R Markdown supports all of the base pandoc markdown features as well as some optional features for compatibility with GitHub Flavored Markdown (which previous versions of R Markdown were based on). See rmarkdown_format for details.

See Also

knit, output_format, https://pandoc.org

Examples

```
## Not run:
library(rmarkdown)
# Render the default (first) format defined in the file
render("input.Rmd")
# Render all formats defined in the file
render("input.Rmd", "all")
# Render a single format, using parameters for \code{html_document} from
# the YAML header parameters.
render("input.Rmd", "html_document")
# Render a single format, ignoring parameters for \code{html_document} in
# the YAML header. Any parameters not passed as arguments to
# \code{html_document()} will be assigned to their default values, regardless
# of anything in the YAML header
render("input.Rmd", html_document(toc = TRUE, toc_depth = 2))
# Render multiple formats
render("input.Rmd", c("html_document", "pdf_document"))
## End(Not run)
```

render_delayed Delay Rendering for an Expression

Description

In a Shiny document, evaluate the given expression after the document has finished rendering, instead of during render.

Usage

```
render_delayed(expr)
```

Arguments

expr The expression to evaluate.

Details

This function is useful inside Shiny documents. It delays the evaluation of its argument until the document has finished its initial render, so that the document can be viewed before the calculation is finished.

Any expression that returns HTML can be wrapped in render_delayed.

78

```
render_site
```

Value

An object representing the expression.

Note

expr is evaluated in a **copy** of the environment in which the render_delayed call appears. Consequently, no side effects created by expr are visible in succeeding expressions, nor are changes to the environment after the call to render_delayed visible to expr.

expr must be an expression that produces HTML.

Examples

```
## Not run:
# Add the following code to an R Markdown document
div(Sys.time())
render_delayed({
  Sys.sleep(3)  # simulate an expensive computation
  div(Sys.time())
})
div(Sys.time())
## End(Not run)
```

render_site

Render multiple documents as a website

Description

Render all of the R Markdown documents within a directory as a website.

Usage

```
render_site(
  input = ".",
  output_format = "all",
  envir = parent.frame(),
  quiet = FALSE,
  encoding = "UTF-8"
)

clean_site(input = ".", preview = TRUE, quiet = FALSE, encoding = "UTF-8")
site_generator(input = ".", output_format = NULL)
site_config(input = ".", encoding = "UTF-8")
```

default_site_generator(input, output_format_filter = NULL, ...)

Arguments

input	Website directory (or the name of a file within the directory).	
output_format	R Markdown format to convert to (defaults to "all").	
envir	The environment in which the code chunks are to be evaluated during knitting (can use new.env to guarantee an empty new environment).	
quiet	TRUE to suppress messages and other output.	
encoding	Ignored. The encoding is always assumed to be UTF-8.	
preview	Whether to list the files to be removed rather than actually removing them. De- faulting to TRUE to prevent removing without notice.	
output_format_filter		
	An optional function which is passed the input file and the output format, and which returns a (potentially modified) output format.	
	Currently unused.	

Details

The render_site function enables you to render a collection of markdown documents within a directory as a website. There are two requirements for a directory to be rendered as a website:

- 1. It must contain either an "index.Rmd" or "index.md" file.
- 2. It must contain a site configuration file ("_site.yml").

The most minimal valid website is an empty "index.Rmd" and an empty "_site.yml". With this configuration a single empty webpage would be generated via a call to render_site. If you add additional markdown documents to the directory they will also be rendered. By default a site is rendered in the following fashion:

- R Markdown (.Rmd) and plain markdown (.md) files in the root directory are rendered. Note however that markdown files beginning with "_" are not rendered (this is a convention to designate files that are included by top level documents).
- 2. All output and supporting files are copied to a "_site" subdirectory of the website directory (this is configurable, see discussion below).
- 3. The following files are **not** copied to the "_site" sub-directory:
 - Files beginning with "." (hidden files).
 - Files beginning with "_"
 - Files known to contain R source code (e.g. ".R", ".s", ".Rmd"), R data (e.g. ".RData", ".rds"), configuration data (e.g. ".Rproj", "rsconnect") or package project management data (e.g. "packrat", "renv").

Note that you can override which files are included or excluded via settings in "_site.yml" (described below).

4. Normally R Markdown renders documents as self-contained HTML. However, render_site ensures that dependencies (e.g. CSS, JavaScript, images, etc.) remain in external files. CSS/JavaScript libraries are copied to a "site_libs" sub-directory and plots/images are copied to "_files" sub-directories.

You can remove the files generated by render_site using the clean_site function.

Value

render_site returns the name of the site output file (relative to the input directory). clean_site returns the names of the generated files removed during cleaning. site_config returns the contents of _site.yml as an R list. default_site_generator returns the default site generator for R Markdown websites.

Configuration

A "_site.yml" file can be used to configure the behavior of site generation. Here is an example configuration file:

```
name: my-website
output_dir: _site
include: ["demo.R"]
exclude: ["docs.txt", "*.csv"]
navbar:
   title: "My Website"
   left:
        - text: "Home"
        href: index.html
        - text: "About"
        href: about.html
output:
   html_document:
        toc: true
        highlight: textmate
```

The name field provides a suggested URL path for your website when it is published (by default this is just the name of the directory containing the site). The output_dir indicates which directory to copy site content into ("_site" is the default if none is specified). Note that this can be "." to keep all content within the root website directory alongside the source code.

The include and exclude fields enable you to override the default behavior vis-a-vis what files are copied into the "_site" directory (wildcards can be used as in the above example).

The navbar field can be used to define a navigation bar for websites based on the html_document format.

Finally, the output field enables you to specify output options that are common to all documents within the website (you can also still provide local options within each document that override any common options).

new_session: true causes each file to be rendered in a new R session. This prevents the masking problem that arises when different files use functions from different packages (namespaces) that share a common name, such as here::here and lubridate::here or dplyr::filter and MASS::filter. The default behaviour of render_site is to use a common R session.

autospin: true causes .R files to be spinned and rendered (as well as .Rmd files). If autospin is set to false (the default), .R files will not be spinned nor rendered. autospin can also enumerate a list of .R files to be spinned and rendered.

Custom Site Generation

The behavior of the default site generation function (rmarkdown::default_site) is described above. It is also possible to define a custom site generator that has alternate behavior. A site generator is an R function that is bound to by including it in the "site:" field of the "index.Rmd" or "index.md" file. For example:

title: "My Book"
output: bookdown::gitbook
site: bookdown::bookdown_site

A site generation function should return a list with the following elements:

name: The name for the website (e.g. the parent directory name).

- output_dir: The directory where the website output is written to. This path should be relative to the site directory (e.g. "." or "_site")
- render: An R function that can be called to generate the site. The function should accept the input_file, output_format, envir, and quiet arguments.
- clean: An R function that returns relative paths to the files generated by render_site (these files are the ones which will be removed by the clean_site function.
- subdirs (optional): A logical flag that indicates if the generator supports nested source files in subdirectories of the project (TRUE) or only at the project root (FALSE). (e.g. blogdown:::blogdown_site())

Note that the input_file argument will be NULL when the entire site is being generated. It will be set to a specific file name if a front-end tool is attempting to preview it (e.g. RStudio IDE via the Knit button).

When quiet = FALSE the render function should also print a line of output using the message function indicating which output file should be previewed, for example:

```
if (!quiet)
  message("\nOutput created: ", output)
```

Emitting this line enables front-ends like RStudio to determine which file they should open to preview the website.

See the source code of the rmarkdown::default_site function for a example of a site generation function.

82

render_supporting_files

Render supporting files for an input document

Description

Render (copy) required supporting files for an input document to the _files directory that is associated with the document.

Usage

```
render_supporting_files(from, files_dir, rename_to = NULL)
```

Arguments

from	The directory from which the files should be copied.
files_dir	The directory that will receive the copied files.
rename_to	An option to rename the source directory after the copy operation is complete.

Value

The relative path to the supporting files. This path is suitable for inclusion in HTMLhref and src attributes.

resolve_output_format Resolve the output format for an R Markdown document

Description

Read the YAML metadata (and any common output YAML file) for the document and return an output format object that can be passed to the render function.

Usage

```
resolve_output_format(
    input,
    output_format = NULL,
    output_options = NULL,
    output_yaml = NULL
)
```

Arguments

input	Input file (Rmd or plain markdown)
output_format	Name of output format (or NULL to use the default format for the input file).
output_options	List of output options that should override the options specified in metadata.
output_yaml	Paths to YAML files specifying output formats and their configurations. The first existing one is used. If none are found, then the function searches YAML files specified to the output_yaml top-level parameter in the YAML front matter, _output.yml or _output.yaml, and then uses the first existing one.

Details

This function is useful for front-end tools that need to modify the default behavior of an output format.

Value

An R Markdown output format definition that can be passed to render.

rmarkdown_format R Markdown input format definition

Description

Compose a pandoc markdown input definition for R Markdown that can be passed as the from argument of pandoc_options.

Usage

```
rmarkdown_format(extensions = NULL)
```

from_rmarkdown(implicit_figures = TRUE, extensions = NULL)

Arguments

extensions Markdown extensions to be added or removed from the default definition of R Markdown.

implicit_figures

Automatically make figures from images (defaults to TRUE).

Details

By default R Markdown is defined as all pandoc markdown extensions with the following tweaks for backward compatibility with the markdown package (+ features are added, - features are removed):

+autolink_bare_uris
+tex_math_single_backslash

For more on pandoc markdown see the pandoc online documentation.

Value

Pandoc markdown format specification

See Also

output_format, pandoc_options

Examples

Not run: rmarkdown_format("-implicit_figures")

End(Not run)

rmd_metadata

R Markdown Metadata

Description

Rmd files include a metadata section (typically located at the top of the file) that can specify (among other things) the title, author, and date of the document. Metadata adheres to the YAML format and is delimited by lines containing three dashes (---). Here is an example metadata section:

```
title: "Crop Analysis Q3 2013"
author: Martha Smith
date: October 23rd, 2013
---
```

Note that the title field is quoted. This is because titles often contained embedded colons (:) and colons followed by a space need to be quoted in YAML.

Details

When title, author, and date metadata is provided it's used to automatically create a title section within output documents. If you don't want this section included in your document then you should remove the corresponding metadata fields.

When generating PDF and Beamer output there are also a number of other metadata fields that can be included to customize the appearance and theme of PDF output. For more details see the documentation for pdf_document and beamer_presentation.

rtf_document

Description

Format for converting from R Markdown to an RTF document.

Usage

```
rtf_document(
  toc = FALSE,
  toc_depth = 3,
  number_sections = FALSE,
  fig_width = 5,
  fig_height = 4,
  keep_md = FALSE,
  md_extensions = NULL,
  pandoc_args = NULL
)
```

Arguments

toc	TRUE to include a table of contents in the output
toc_depth	Depth of headers to include in table of contents
number_sections	5
	TRUE to number section headings
fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
keep_md	Keep the markdown file generated by knitting.
<pre>md_extensions</pre>	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.
pandoc_args	Additional command line options to pass to pandoc

Details

See the online documentation for additional details on using the rtf_document format.

R Markdown documents can have optional metadata that is used to generate a document header that includes the title, author, and date. For more details see the documentation on R Markdown metadata.

R Markdown documents also support citations. You can find more information on the markdown syntax for citations in the **Bibliographies and Citations** article in the online documentation.

Value

R Markdown output format to pass to render

run

Examples

```
## Not run:
library(rmarkdown)
# simple invocation
render("input.Rmd", rtf_document())
# specify table of contents option
render("input.Rmd", rtf_document(toc = TRUE))
## End(Not run)
```

run

Run a Shiny document

Description

Start a Shiny server for the given document, and render it for display.

Usage

```
run(
  file = "index.Rmd",
  dir = dirname(file),
  default_file = NULL,
  auto_reload = TRUE,
  shiny_args = NULL,
  render_args = NULL
)
```

Arguments

file	Path to the R Markdown document to launch in a web browser. Defaults to index.Rmd in the current working directory, but may be NULL to skip launching a browser.
dir	The directory from which to to read input documents. Defaults to the parent directory of file.
default_file	The file to serve at the Shiny server's root URL. If NULL (the default), a sensible default is chosen (see Details)
auto_reload	If TRUE (the default), automatically reload the Shiny application when the file currently being viewed is changed on disk.
shiny_args	Additional arguments to runApp.
render_args	Additional arguments to render.

Details

The run function runs a Shiny document by starting a Shiny server associated with the document. The shiny_args parameter can be used to configure the server; see the runApp documentation for details.

Once the server is started, the document will be rendered using render. The server will initiate a render of the document whenever necessary, so it is not necessary to call run every time the document changes: if auto_reload is TRUE, saving the document will trigger a render. You can also manually trigger a render by reloading the document in a Web browser.

The server will render any R Markdown (.Rmd) document in dir; the file argument specifies only the initial document to be rendered and viewed. You can therefore link to other documents in the directory using standard Markdown syntax, e.g. [Analysis Page 2](page2.Rmd).

If default_file is not specified, nor is a file specified on the URL, then the default document to serve at / is chosen from (in order of preference):

- If dir contains only one Rmd, that Rmd.
- The file 'index.Rmd', if it exists in dir.
- The first Rmd that has runtime: shiny in its YAML metadata.
- The file 'index.html' (or 'index.htm'), if it exists in dir.

If you wish to share R code between your documents, place it in a file named global.R in dir; it will be sourced into the global environment.

Value

Invisible NULL.

Note

Unlike render, run does not render the document to a file on disk. In most cases a Web browser will be started automatically to view the document; see launch.browser in the runApp documentation for details.

When using an external web browser with the server, specify the name of the R Markdown file to view in the URL (e.g. http://127.0.0.1:1234/foo.Rmd). A URL without a filename will show the default_file as described above.

Examples

```
## Not run:
# Run the Shiny document "index.Rmd" in the current directory
rmarkdown::run()
# Run the Shiny document "shiny_doc.Rmd" on port 8241
rmarkdown::run("shiny_doc.Rmd", shiny_args = list(port = 8241))
## End(Not run)
```

88

shiny_prerendered_chunk

Add code to a shiny_prerendered context

Description

Programmatic equivalent to including a code chunk with a context in a runtime: shiny_prerendered document.

Usage

```
shiny_prerendered_chunk(context, code, singleton = FALSE)
```

Arguments

context	Context name (e.g. "server", "server-start")
code	Character vector with code
singleton	Collapse multiple identical versions of this chunk into a single chunk.

shiny_prerendered_clean Clean prerendered content for the specified Rmd input file

Description

Remove the associated html file and supporting _files directory for a shiny_prerendered documet.

Usage

```
shiny_prerendered_clean(input)
```

Arguments

input Rmd input file to clean content for

```
site_resources
```

Description

Determine which files within a given directory should be copied in order to serve a website from the directory. Attempts to automatically exclude source, data, hidden, and other files not required to serve website content.

Usage

```
site_resources(site_dir, include = NULL, exclude = NULL, recursive = FALSE)
```

Arguments

site_dir	Site directory to analyze
include	Additional files to include (glob wildcards supported)
exclude	Files to exclude (glob wildcards supported)
recursive	TRUE to return a full recursive file listing; FALSE to just provide top-level files and directories.

Value

Character vector of files and directories to copy

slidy_presentation Convert to a slidy presentation

Description

Format for converting from R Markdown to a slidy presentation.

Usage

```
slidy_presentation(
   number_sections = FALSE,
   incremental = FALSE,
   slide_level = NULL,
   duration = NULL,
   footer = NULL,
   font_adjustment = 0,
   fig_width = 8,
   fig_height = 6,
   fig_retina = 2,
   fig_caption = TRUE,
```

slidy_presentation

```
dev = "png",
df_print = "default",
self_contained = TRUE,
highlight = "default",
math_method = "default",
mathjax = "default",
template = "default",
css = NULL,
includes = NULL,
keep_md = FALSE,
lib_dir = NULL,
md_extensions = NULL,
extra_dependencies = NULL,
...
```

Arguments

)

number_sections

	TRUE to number section headings
incremental	TRUE to render slide bullets incrementally. Note that if you want to reverse the default incremental behavior for an individual bullet you can precede it with >. For example: > - Bullet Text. See more in Pandoc's Manual
slide_level	The heading level which defines individual slides. By default this is the highest header level in the hierarchy that is followed immediately by content, and not another header, somewhere in the document. This default can be overridden by specifying an explicit slide_level.
duration	Duration (in minutes) of the slide deck. This value is used to add a countdown timer to the slide footer.
footer	Footer text (e.g. organization name and/or copyright)
font_adjustment	
	Increase or decrease the default font size (e.g. -1 or $+1$). You can also manually adjust the font size during the presentation using the 'S' (smaller) and 'B' (bigger) keys.
fig_width	Default width (in inches) for figures
fig_height	Default height (in inches) for figures
fig_retina	Scaling to perform for retina displays (defaults to 2, which currently works for all widely used retina displays). Set to NULL to prevent retina scaling. Note that this will always be NULL when keep_md is specified (this is because fig_retina relies on outputting HTML directly into the markdown document).
fig_caption	TRUE to render figures with captions
dev	Graphics device to use for figure output (defaults to pdf)
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the

knitr::kable function. The "tibble" method uses the **tibble** package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.

- self_contained Produce a standalone HTML file with no external dependencies, using data: URIs to incorporate the contents of linked scripts, stylesheets, images, and videos. Note that even for self contained documents MathJax is still loaded externally (this is necessary because of its size).
- highlight Syntax highlighting style passed to Pandoc.

Supported built-in styles include "default", "tango", "pygments", "kate", "monochrome", "espresso", "zenburn", "haddock", and "breezedark".

Two custom styles are also included, "arrow", an accessible color scheme, and "rstudio", which mimics the default IDE theme. Alternatively, supply a path to a '. theme' file to use a custom Pandoc style. Note that custom theme requires Pandoc 2.0+.

Pass NULL to prevent syntax highlighting.

- math_method Math rendering engine to use. This will define the math method to use with Pandoc.
 - It can be a string for the engine, one of "mathjax", "mathml", "webtex", "katex", "gladtex", or "r-katex" or "default" for mathjax.

• It can be a list of

- engine: one of "mathjax", "mathml", "webtex", "katex", or "gladtex".
- url: A specific url to use with mathjax, katex or webtex. Note that for engine = "mathjax", url = "local" will use a local version of Math-Jax (which is copied into the output directory).

For example,

```
output:
   html_document:
    math_method:
    engine: katex
    url: https://cdn.jsdelivr.net/npm/katex@0.11.1/dist
```

See Pandoc's Manual about Math in HTML for the details about Pandoc supported methods.

Using math_method = "r-katex" will opt-in server side rendering using KaTeX thanks to katex R package. This is useful compared to math_method = "katex" to have no JS dependency, only a CSS dependency for styling equation.

mathjax Include mathjax. The "default" option uses an https URL from a MathJax CDN. The "local" option uses a local version of MathJax (which is copied into the output directory). You can pass an alternate URL or pass NULL to exclude MathJax entirely.

template	Pandoc template to use for rendering. Pass "default" to use the rmarkdown pack- age default template; pass NULL to use pandoc's built-in template; pass a path to use a custom template that you've created. See the documentation on pandoc online documentation for details on creating custom templates.	
CSS	One or more css files to include.	
includes	Named list of additional content to include within the document (typically cre- ated using the includes function).	
keep_md	Keep the markdown file generated by knitting.	
lib_dir	Directory to copy dependent HTML libraries (e.g. jquery, bootstrap, etc.) into. By default this will be the name of the document with _files appended to it.	
md_extensions	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.	
pandoc_args	Additional command line options to pass to pandoc	
extra_dependencies		
	A LaTeX dependency latex_dependency(), a list of LaTeX dependencies, a character vector of LaTeX package names (e.g. c("framed", "hyperref")), or a named list of LaTeX package options with the names being package names (e.g. list(hyperef = c("unicode=true", "breaklinks=true"), lmodern = NULL)). It can be used to add custom LaTeX packages to the .tex header.	
	Additional function arguments to pass to the base R Markdown HTML output formatter html_document_base	

Details

See the online documentation for additional details on using the slidy_presentation format.

For more information on markdown syntax for presentations see the pandoc online documentation.

Value

R Markdown output format to pass to render

Examples

```
## Not run:
library(rmarkdown)
# simple invocation
render("pres.Rmd", slidy_presentation())
# specify an option for incremental rendering
render("pres.Rmd", slidy_presentation(incremental = TRUE))
## End(Not run)
```

word_document

Description

Format for converting from R Markdown to an MS Word document.

Usage

```
word_document(
  toc = FALSE,
  toc_depth = 3,
  number_sections = FALSE,
  fig_width = 5,
  fig_height = 4,
  fig_caption = TRUE,
  df_print = "default",
  highlight = "default",
  reference_docx = "default",
  keep_md = FALSE,
  md_extensions = NULL,
  pandoc_args = NULL
)
```

Arguments

toc	TRUE to include a table of contents in the output	
toc_depth	Depth of headers to include in table of contents	
number_sections		
	TRUE to number section headings	
fig_width	Default width (in inches) for figures	
fig_height	Default height (in inches) for figures	
fig_caption	TRUE to render figures with captions	
df_print	Method to be used for printing data frames. Valid values include "default", "kable", "tibble", and "paged". The "default" method uses a corresponding S3 method of print, typically print.data.frame. The "kable" method uses the knitr::kable function. The "tibble" method uses the tibble package to print a summary of the data frame. The "paged" method creates a paginated HTML table (note that this method is only valid for formats that produce HTML). In addition to the named methods you can also pass an arbitrary function to be used for printing data frames. You can disable the df_print behavior entirely by setting the option rmarkdown.df_print to FALSE. See Data frame printing section in bookdown book for examples.	

highlight	Syntax highlighting style passed to Pandoc.
	Supported built-in styles include "default", "tango", "pygments", "kate", "monochrome", "espresso", "zenburn", "haddock", and "breezedark".
	Two custom styles are also included, "arrow", an accessible color scheme, and "rstudio", which mimics the default IDE theme. Alternatively, supply a path to a '.theme' file to use a custom Pandoc style. Note that custom theme requires Pandoc 2.0+.
	Pass NULL to prevent syntax highlighting.
reference_docx	Use the specified file as a style reference in producing a docx file. For best results, the reference docx should be a modified version of a docx file produced using pandoc. Pass "default" to use the rmarkdown default styles.
keep_md	Keep the markdown file generated by knitting.
<pre>md_extensions</pre>	Markdown extensions to be added or removed from the default definition of R Markdown. See the rmarkdown_format for additional details.
pandoc_args	Additional command line options to pass to pandoc

Details

See the online documentation for additional details on using the word_document format.

R Markdown documents can have optional metadata that is used to generate a document header that includes the title, author, and date. For more details see the documentation on R Markdown metadata.

R Markdown documents also support citations. You can find more information on the markdown syntax for citations in the **Bibliographies and Citations** article in the online documentation.

Value

R Markdown output format to pass to render

Examples

```
## Not run:
library(rmarkdown)
# simple invocation
render("input.Rmd", word_document())
# specify an option for syntax highlighting
render("input.Rmd", word_document(highlight = "zenburn"))
```

End(Not run)

Index

* datasets

metadata, 53

accounts(), 74 all_output_formats, 5 Anchor Sections Customization section, 22 available_templates, 6 beamer_presentation, 5, 6, 85 bslib::bs_theme(), 21, 23, 24, 29, 31, 34, 35 clean_site(render_site), 79 compile_notebook, 9 Compiling R scripts to a notebook, 77 context_document, 10 convert_ipynb, 13 default_output_format, 14 default_site_generator (render_site), 79 draft, 15 draft(), 6 find_external_resources, 16 find_pandoc, 17 from_rmarkdown (rmarkdown_format), 84 github_document, 18 html-dependencies, 20 html_dependency_bootstrap (html-dependencies), 20 html_dependency_bootstrap(), 21, 23, 29, 34 html_dependency_codefolding_lua (html-dependencies), 20 html_dependency_font_awesome (html-dependencies), 20 html_dependency_highlightjs (html-dependencies), 20

html_dependency_ionicons (html-dependencies), 20 html_dependency_jquery (html-dependencies), 20 html_dependency_jqueryui (html-dependencies), 20 html_dependency_pagedtable (html-dependencies), 20 html_dependency_tabset (html-dependencies), 20 html_dependency_tabset(), 28, 39 html_dependency_tocify (html-dependencies), 20 html_document, 5, 21, 31, 32, 77, 81 html_document(), 19, 28, 37-39 html_document_base, 25, 29, 35, 43, 93 html_fragment, 31 html_notebook, 32 html_notebook_metadata, 35 html_notebook_output, 35, 36 html_notebook_output_code (html_notebook_output), 36 html_notebook_output_html (html_notebook_output), 36 html_notebook_output_img (html_notebook_output), 36 html_notebook_output_png (html_notebook_output), 36 html_vignette, 37 html_vignette(), 28, 39 htmltools:htmlDependency(), 24, 30, 35, 38, 43

I, **76**

knit, 75, 77

INDEX

knit_hooks, 48 knit_params_ask, 50 knitr::kable, 7, 11, 19, 23, 32, 37, 41, 52, 56, 69, 72, 92, 94 knitr_options, 48, 49, 56, 57 knitr_options_html, 48 knitr_options_pdf, 49 latex-dependencies, 50 latex_dependency, 51 latex_dependency_tikz (latex-dependencies), 50 latex_document(pdf_document), 68 latex_fragment (pdf_document), 68 md_document, 51 message, 82 metadata, 9, 12, 25, 53, 53, 55, 70, 86, 95 new.env, 76, 80 numeric_version, 62 odt_document, 54 on.exit, 56, 58 opts_chunk, 48 opts_hooks, 48 opts_knit, 48 opts_template, 48 output_format, 29, 36, 48, 49, 55, 57, 65, 77, 85 output_format_dependency, 57 output_metadata, 59 paged_table, 59 pandoc_args, 60 pandoc_available, 61 pandoc_citeproc_args (pandoc_args), 60 pandoc_citeproc_convert, 62 pandoc_convert, 63, 65 pandoc_exec, 64 pandoc_highlight_args (pandoc_args), 60 pandoc_include_args (pandoc_args), 60 pandoc_latex_engine_args (pandoc_args), 60 pandoc_lua_filter_args (pandoc_args), 60 pandoc_metadata_arg (pandoc_args), 60 pandoc_metadata_file_arg(pandoc_args), 60 pandoc_options, 56-58, 64, 84, 85

pandoc_path_arg, 60, 66, 71 pandoc_self_contained_html, 66 pandoc_template, 67 pandoc_toc_args (pandoc_args), 60 pandoc_variable_arg (pandoc_args), 60 pandoc_version (pandoc_available), 61 parse_html_notebook, 67 path.expand, 66 pdf_document, 5, 68, 77, 85 pkg_file_lua, 71 powerpoint_presentation, 72 publish_site, 73 relative_to, 74

render, 5, 9, 10, 12, 14, 25, 32, 55–57, 59, 65, 70, 75, 83, 84, 86–88, 93, 95 render(), 9, 20, 38, 43, 53, 73 render_delayed, 78 render_supporting_files, 56, 83 resolve_output_format, 83 rmarkdown (rmarkdown-package), 3 rmarkdown-package, 3 rmarkdown_format, 8, 12, 19, 25, 32, 35, 43, 52, 54, 65, 69, 73, 77, 84, 86, 93, 95 rmd_metadata, 85 rtf_document, 86 run, 76, 87 runApp, 50, 87, 88

shiny_prerendered_chunk, 89
shiny_prerendered_clean, 89
site_config (render_site), 79
site_generator (render_site), 79
site_resources, 90
slidy_presentation, 90

```
word_document, 5, 94
```