Package ‘ymlthis’

March 23, 2021

Title  Write 'YAML' for 'R Markdown', 'bookdown', 'blogdown', and More

Version 0.1.4

Description  Write 'YAML' front matter for R Markdown and related documents. yml_*() functions write 'YAML' and use_*() functions let you write the resulting 'YAML' to your clipboard or to .yml files related to your project.

License  MIT + file LICENSE


BugReports  https://github.com/r-lib/ymlthis/issues

Depends  R (>= 3.2)

Imports  crayon, fs, glue, magrittr, miniUI, purrr (>= 0.3.2), rlang (>= 0.4.0), rmarkdown, rstudioapi, shiny, shinyBS, stringr, usethis (>= 1.5.0), whoami, withr, yaml

Suggests  blogdown, bookdown, covr, knitr, pkgdown, prettydoc, roxygen2 (>= 7.0.0), spelling, testthat, xaringan

VignetteBuilder  knitr

Encoding  UTF-8

Language  en-US

LazyData  true

RoxygenNote  7.1.1

NeedsCompilation  no

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Repository  CRAN

Date/Publication  2021-03-23 05:30:02 UTC
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asis_yaml_output

Export yml object as a YAML knitr code chunk

Description

asis_yaml_output() exports a yml object as a YAML knitr code chunk instead of as an R object. Doing so adds code highlighting for YAML syntax.

Usage

asis_yaml_output(.yml, fences = TRUE)

Arguments

.yml a yml object created by yml(), as_yml(), or returned by a yml_*() function
fences Logical. Write fences ("—") before and after YAML?

See Also

Other yml: bib2yml(), draw_yml_tree(), has_field(), read_json(), use_yml_defaults(),
use_yml_file(), use_yml(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(),
yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(),
yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(),
yml_rsconnect_email(), yml_rticles_opts(), yml_runtime(), yml_site_opts(), yml_toc(),
yml_vignette()

as_yml

Convert to yml object

Description

as_yml is a wrapper for yaml::yaml.load() that stores YAML as a yml object, which prints cleanly to the console and is easy to work with using ymlthis functions.

Usage

as_yml(x)

Arguments

x An object, either a character vector of length 1 or list, to convert to yml.

Value

a yml object
Examples

```r
x <- as_yml("author: Hadley Wickham
date: '2014-09-12'
title: Tidy Data
keywords:
- data cleaning
- data tidying
- relational databases
- R")

x

x %>%
yml_subtitle("Hadley’s Tidy Data Paper")
```

---

**bib2yml**

*Convert bib files to YAML*

**Description**

`bib2yml()` uses pandoc to convert a .bib file to YAML. It also accepts an optional `yml` object to prepend to the the YAML from the .bib file. If you want to cite several R packages, see `knitr::write_bib()` to write a bibliography file and convert it with `bib2yml()`.

**Usage**

```r
bib2yml(.yml = NULL, path)
```

**Arguments**

- `.yml` a `yml` object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function
- `path` a path to the .bib file

**Value**

a `yml` object

**See Also**

Other `yml`: `asis_yaml_output()`, `draw_yml_tree()`, `has_field()`, `read_json()`, `use_yml_defaults()`, `use_yml_file()`, `use_yml()`, `yml_author()`, `yml_blogdown_opts()`, `yml_bookdown_opts()`, `yml_citations()`, `yml_clean()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_output()`, `yml_pagedown_opts()`, `yml_params()`, `yml_pkgdown()`, `yml_reference()`, `yml_replace()`, `yml_resource_files()`, `yml_rsconnect_email()`, `yml_rslides_opts()`, `yml_runtime()`, `yml_site_opts()`, `yml_toc()`, `yml_vignette()`

Other citations: `yml_citations()`, `yml_reference()`
**blogdown_template**

Create YAML based on blogdown theme archetypes

**Description**

`blogdown_template()` creates YAML based on your blogdown theme archetypes. blogdown is based on Hugo, which supports many custom themes. Each theme uses YAML in a different way. However, many come with archetypes that define the YAML or TOML. To find out which types your theme has, use `blogdown_archetypes()` to see what’s available. Use `blogdown_template()` to specify the archetype and it will convert the template to YAML that you can use in your post.

**Usage**

```r
blogdown_template(type, path = ".", theme = NULL)
blogdown_archetypes(path = ".", theme = NULL)
```

**Arguments**

- **type**: an archetype
- **path**: the path to your blogdown site
- **theme**: the theme to check for archetypes. By default, `blogdown_template()` will attempt to read your theme from your config file.

**Value**

- a yml object

---

**code_chunk**

Write code chunks programmatically

**Description**

code_chunk() assembles a knitr code chunk as a character vector. setup_chunk() is a wrapper around code_chunk() to create setup chunks. By default it uses include = FALSE and inserts knitr::opts_chunk$set(echo = TRUE) into the chunk body. These are helper functions to write R Markdown bodies for use_rmarkdown().

**Usage**

```r
code_chunk(chunk_code, chunk_name = NULL, chunk_args = NULL)
setup_chunk(chunk_code = NULL, chunk_args = list(include = FALSE))
```
Arguments

- **chunk_code**
  - An expression. Surround with `{}` to capture multiple lines.

- **chunk_name**
  - The name of the chunk

- **chunk_args**
  - A list of chunk options

Value

- a character vector

Examples

```r
setup_chunk()

code_chunk({
  yml() %>%
  yml_output(pdf_document())
}, chunk_name = 'yml_example')
```

draw_yml_tree

---

**draw_yml_tree**

*Draw an tree of YAML hierarchy*

Description

draw_yml_tree() draws an ASCII tree of the hierarchy of a given yml object to the console.

Usage

draw_yml_tree(.yml = last_yml(), indent = "")

Arguments

- **.yml**
  - A yml object created by yml(), as_yml(), or returned by a yml_*() function

- **indent**
  - A character vector used to indent the tree

Value

- invisibly, .yml

See Also

Other yml: `asis_yaml_output()`, `bib2yml()`, `has_field()`, `read_json()`, `use_yml_defaults()`, `use_yml_file()`, `use_yml()`, `yml_author()`, `yml_blogdown_opts()`, `yml_bookdown_opts()`, `yml_citations()`, `yml_clean()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_output()`, `yml_pagedown_opts()`, `yml_params()`, `yml_pkgdown()`, `yml_reference()`, `yml_replace()`, `yml_resource_files()`, `yml_rsconnect_email()`, `yml_articles_opts()`, `yml_runtime()`, `yml_site_opts()`, `yml_toc()`, `yml_vignette()`
Examples

```r
# draw the most recently used `yml`
draw_yml_tree()

yml() %>%
yml_output(
  pdf_document(keep_tex = TRUE),
  html_document()
) %>%
draw_yml_tree()
```

Description

`gitbook_config()` is a helper function to specify the `config` argument in `bookdown::gitbook()`, as described in the `bookdown` book.

Usage

```r
gitbook_config(
  tocCollapse = yml_blank(),
  toc_scroll_highlight = yml_blank(),
  toc_before = yml_blank(),
  toc_after = yml_blank(),
  toolbar_position = yml_blank(),
  edit = yml_blank(),
  download = yml_blank(),
  search = yml_blank(),
  fontsettings_theme = yml_blank(),
  fontsettings_family = yml_blank(),
  fontsettings_size = yml_blank(),
  sharing_facebook = yml_blank(),
  sharing_twitter = yml_blank(),
  sharing_google = yml_blank(),
  sharing_linkedin = yml_blank(),
  sharing_weibo = yml_blank(),
  sharing_instapaper = yml_blank(),
  sharing_vk = yml_blank(),
  sharing_all = yml_blank(),
  ...
)
```
Arguments

toc_collapse  Collapse some items initially when a page is loaded via the collapse option. Its possible values are "subsection" (the default), "section", "none", or NULL.

toc_scroll_highlight  Logical. Enable highlighting of TOC items as you scroll the book body? The default is TRUE.

toc_before, toc_after  a character vector of HTML to add more items before and after the TOC using the HTML tag <li>. These items will be separated from the TOC using a horizontal divider.

toolbar_position  The toolbar position: "fixed" or "static." The default ("fixed") is that the toolbar will be fixed at the top of the page, whereas when set to "static" the toolbar will not scroll with the page.

edit  If not empty, an edit button will be added to the toolbar.

download  This option takes either a character vector or a list of character vectors with the length of each vector being 2. When it is a character vector, it should be either a vector of filenames or filename extensions. When you only provide the filename extensions, the filename is derived from the book filename of the configuration file _bookdown.yml

search  Include a search bar?

fontsettings_theme  The theme. "White" (the default), "Sepia", or "Night".

fontsettings_family  The font family. "sans" (the default) or "serif".

fontsettings_size  The font size. Default is 2.

sharing_facebook  Logical. Include Facebook share link? Default is TRUE.

sharing_twitter  Logical. Include Twitter share link? Default is TRUE.

sharing_google  Logical. Include Google share link? Default is FALSE.

sharing_linkedin  Logical. Include LinkedIn share link? Default is FALSE.

sharing_weibo  Logical. Include Weibo share link? Default is FALSE.

sharing_instapaper  Logical. Include Instapaper share link? Default is FALSE.

sharing_vk  Logical. Include VK share link? Default is FALSE.

sharing_all  Logical. Include all share links? Default is FALSE.

...  additional named R objects, such as characters or lists, to transform into YAML

Value

a list to use in the config argument of bookdown::gitbook()
**has_field**

**See Also**

Other bookdown: `yml_bookdown_opts()`

---

**has_field**  
*Check if field exists in YAML*

**Description**

`has_field()` retrieves the names of all fields (including nested fields) and checks if `field` is among them.

**Usage**

`has_field(.yml, field)`

**Arguments**

- `.yml`  
a yml object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function
- `field`  
A character vector, the name of the field(s) to check for

**Value**

logical

**See Also**

Other `yml`: `asis_yaml_output()`, `bib2yml()`, `draw_yml_tree()`, `read_json()`, `use_yml_defaults()`, `use_yml_file()`, `use_yml()`, `yml_author()`, `yml_blogdown_opts()`, `yml_bookdown_opts()`, `yml_citations()`, `yml_clean()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_output()`, `yml_pagedown_opts()`, `yml_params()`, `yml_pkgdown()`, `yml_reference()`, `yml_replace()`, `yml_resource_files()`, `yml_rsconnect_email()`, `yml_pkgdown()` , `yml_reference()`, `yml_replace()`, `yml_resource_files()`, `yml_vignette()`, `yml_rjsticles_opts()`, `yml_runtime()`, `yml_site_opts()`, `yml_toc()`,

**Examples**

```r
has_field(yml(), "author")
has_field(yml(), "toc")
```
includes2 

*Include content within output*

**Description**

includes2() is a version of the includes() helper function from rmarkdown that uses yml_blank() instead of NULL as the argument defaults, as ymlthis treats NULLs as literal YAML syntax (“null”).

**Usage**

```r
includes2(
  in_header = yml_blank(),
  before_body = yml_blank(),
  after_body = yml_blank()
)
```

**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.

**Value**

a list

**Examples**

```r
yml() %>%
  yml_output(
    pdf_document(includes = includes2(after_body = "footer.tex"))
  )
```

---

**is_yml**

*Is object a yml object?*

**Description**

Is object a yml object?

**Usage**

```r
is_yml(x)
```
Arguments

\(x\) An object to test

Value

A logical vector

---

last_yml  
Return the most recently printed YAML

Description

last_yml() this stores the most recently printed yml object; you can use last_yml() to retrieve it to modify, pass to use_*() functions, and so on.

Usage

last_yml()

Examples

```r
yml() %>%
  yml_author("Yihui Xie")

last_yml()
```

---

pagedown_business_card_template

Generate a full YAML template for your pagedown business card

Description

pagedown has a unique output type to make business cards: pagedown::business_card(). pagedown_business_card_template() creates a YAML template to use for this output. What’s unique about this output type is that almost all of the contents are supplied through YAML. An R Markdown file that only contains YAML related to the business card is enough to produce the output, although you can also customize the output in the body of the document (see the pagedown vignette). A good workflow to write a business card is to use pagedown_business_card_template() to specify the YAML and pass it to use_rmarkdown(), which you can then to knit into business cards.
Usage

```r
pagedown_business_card_template(
  name = yml_blank(),
  person = yml_blank(),
  title = yml_blank(),
  phone = yml_blank(),
  email = yml_blank(),
  url = yml_blank(),
  address = yml_blank(),
  logo = yml_blank(),
  .repeat = yml_blank(),
  paperwidth = yml_blank(),
  paperheight = yml_blank(),
  cardwidth = yml_blank(),
  cardheight = yml_blank(),
  cols = yml_blank(),
  rows = yml_blank(),
  mainfont = yml_blank(),
  googlefonts = yml_blank(),
  ...
)

pagedown_person(...)```

Arguments

- **name**  
The name

- **person**  
When you are creating business cards for numerous people with shared information, passing values to the person field can override the default values, which can be any of the values accepted by this function. Use `pagedown_person()` to do so or manually provide them using `list(field = value)`.

- **title**  
The title of the person

- **phone**  
A phone number

- **email**  
An email address

- **url**  
A website URL

- **address**  
The address

- **logo**  
A path to a logo file

- **.repeat**  
The number of cards to repeat. Note that the actual YAML field is `repeat`.

- **paperwidth**  
The paper width

- **paperheight**  
The paper height

- **cardwidth**  
The width of the card

- **cardheight**  
The height of the card

- **cols**  
The number of columns in the card grid

- **rows**  
The rows of columns in the card grid
`pagedown_business_card_template`  

mainfont: The font  
googofonts: A character vector of Google Fonts  
... additional named R objects, such as characters or lists, to transform into YAML  

**Value**  
a yml object  

**See Also**  
`use_rmarkdown()`  
Other `pagedown`: `yml_pagedown_opts()`  

**Examples**  

```r  
pagedown_business_card_template(  
  name = "Jane Doe",  
  title = "Miss Nobody",  
  phone = "+1 123-456-7890",  
  email = "jane.doe@example.com",  
  url = "www.example.com",  
  address = "2020 South Street, Sunshine, CA 90000",  
  logo = "logo.png",  
  .repeat = 12  
)  

pagedown_business_card_template(  
  phone = "+1 123-456-7890",  
  url = "www.example.com",  
  address = "2020 South Street, Sunshine, CA 90000",  
  logo = "logo.png",  
  person = list(    
    pagedown_person(  
      name = "Jane Doe",  
      title = "Miss Nobody",  
      email = "jane.doe@example.com",  
      .repeat = 6  
    ),  
    pagedown_person(  
      name = "John Doe",  
      title = "Mister Nobody",  
      phone = "+1 777-777-7777", # overrides the default phone    
      email = "john.doe@example.com",  
      .repeat = 6  
    )  
  ),  
  paperwidth = "8.5in",  
  paperheight = "11in",  
  cols = 4,  
)  
```
pandoc_template_types

Use pandoc templates and custom highlight themes

Description

Pandoc has several built-in templates and code highlighting themes that can be customized and included in the template and highlight-style YAML fields, respectively. `pandoc_template_types()` and `pandoc_highlight_styles()` return the available templates and highlight styles in pandoc, respectively. `use_pandoc_template()` creates a new file based on a template from pandoc or R Markdown and `use_pandoc_highlight_style()` creates a new highlight theme file based on an existing pandoc theme.

Usage

```r
pandoc_template_types()
pandoc_highlight_styles()
use_pandoc_template(type, path, source = c("rmarkdown", "pandoc"))
use_pandoc_highlight_style(theme, path)
```

Arguments

- **type**: The template type
- **path**: The path to write the file to
- **source**: The template source ("pandoc" or "rmarkdown")
- **theme**: The name of the theme

Value

A character vector
pkgdown includes three helpful pkgdown::template_*() functions to generate the navbar, reference, and article YAML for the _pkgdown.yml file. pkgdown_template() is a wrapper function that runs all three, combines them, and converts them to a yml object. You may also pass pkgdown::template_*() functions to as_yml() to convert the individual sections. pkgdown_template() is particularly useful with use_pkgdown_yml() to write directly to the _pkgdown.yml file.

Usage

pkgdown_template(path = ".")

Arguments

path The path to your package directory

Value

a yml object

See Also

use_pkgdown_yml()

Other pkgdown: yml_pkgdown()

Examples

## Not run:
# requires this to be a package directory
pkgdown_template() %>%
  use_pkgdown_yml()

## End(Not run)
Description

Read JSON and TOML files in as yml objects with read_*(). Write yml objects out as JSON and YAML files with write_as_*(). You can also provide write_as_*() a path to an existing .yml file to translate to JSON or TOML. These functions rely on Hugo and blogdown, so you must have blogdown installed.

Usage

read_json(path)
read_toml(path)
write_as_json(
  .yml = NULL,
  path = NULL,
  out = NULL,
  build_ignore = FALSE,
  git_ignore = FALSE,
  quiet = FALSE
)
write_as_toml(
  .yml = NULL,
  path = NULL,
  out = NULL,
  build_ignore = FALSE,
  git_ignore = FALSE,
  quiet = FALSE
)

Arguments

path a path to a JSON or TOML file
.yml a yml object created by yml(), as_yml(), or returned by a yml_*() function
out The path to write out to. If NULL, will write to the path but change the file extension to .toml or .json.
build_ignore Logical. Should the file be added to the .Rbuildignore file?
git_ignore Logical. Should the file be added to the .gitignore file?
quiet Logical. Whether to message about what is happening.

Value

a yml object (if reading) or the path (if writing)
use_yml

See Also

Other yml: asis_yml_output(), bib2yml(), draw_yml_tree(), has_field(), use_yml_defaults(), use_yml_file(), use_yml(), yaml_author(), yaml_blogdown_opts(), yaml_bookdown_opts(), yaml_citations(), yaml_clean(), yaml_distill_opts(), yaml_latex_opts(), yaml_output(), yaml_pagedown_opts(), yaml_params(), yaml_pkgdown(), yaml_reference(), yaml_replace(), yaml_resource_files(), yaml_rsconnect_email(), yaml_rnticles_opts(), yaml_runtime(), yaml_site_opts(), yaml_toc(), yaml_vignette()

Description

use_yml() takes a yml object and puts the resulting YAML on your clipboard to paste into an R Markdown or YAML file. use_rmarkdown() takes the yml object and writes it to a new R Markdown file. You can add text to include in the body of the file. If it’s not specified, use_rmarkdown() will use setup_chunk() by default. You can also set a default for body using options(ymlthis.rmd_body = "(your text)"); see use_rmd_defaults(). Together with specifying default YAML (see use_yml_defaults()), use_rmarkdown() also serves as an ad-hoc way to make R Markdown templates. You may also supply use_rmarkdown() with an existing R Markdown file from which to read the YAML header; the YAML header from the template is then combined with .yml, if it’s supplied, and written to a new file. use_index_rmd() is a wrapper around use_rmarkdown() that specifically writes to a file called index.Rmd. By default, use_yml() and use_rmarkdown() use the most recently printed YAML via last_yml().

Usage

use_yml(.yml = last_yml())

use_rmarkdown(
  .yml = last_yml(),
  path,
  template = NULL,
  include_yaml = TRUE,
  include_body = TRUE,
  body = NULL,
  quiet = FALSE,
  open_doc = interactive()
)

use_index_rmd(
  .yml = last_yml(),
  path,
  template = NULL,
  include_yaml = TRUE,
  include_body = TRUE,
body = NULL,
quiet = FALSE,
open_doc = interactive()
)

Arguments

.yml a yml object created by yml(), as_yml(), or returned by a yml_*() function
path A file path to write R Markdown file to
template An existing R Markdown file to read YAML from
include_yaml Logical. Include the template YAML?
include_body Logical. Include the template body?
body A character vector to use in the body of the R Markdown file. If no template is set, checks 
得到getOption("ymlthis.rmd_body") (see use_rmd_defaults()) and otherwise uses setup_chunk().
quiet Logical. Whether to message about what is happening.
open_doc Logical. Open the document after it’s created? By default, this is TRUE if it is an interactive session and FALSE if not. Also checks that RStudio is available.

Value

use_yml() invisibly returns the input yml object

See Also

code_chunk() setup_chunk()

Other yml: asis_yaml_output(), bib2yml(), draw_yaml_tree(), has_field(), read_json(),
use_yaml_defaults(), use_yaml_file(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(),
yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(),
yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(),
yml_rsconnect_email(), yml_rmarkdown_opts(), yml_runtime(), yml_site_opts(), yml_toc(),
yml_vignette()
use_yml_file

Usage

use_yml_defaults(.yml)
use_rmd_defaults(x)
get_yml_defaults()
get_rmd_defaults()

Arguments

.yml  a yml object created by yml(), as_yml(), or returned by a yml_*() function
x     a character vector to use as the body text in use_rmarkdown().

See Also

yml() get_yml_defaults()

Other yml: asis_yaml_output(), bib2yml(), draw_yml_tree(), has_field(), read_json(),
use_yml_file(), use_yml(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(),
yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(),
yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(),
yml_rsconnect_email(), yml_rarticles_opts(), yml_runtime(), yml_site_opts(), yml_toc(),
yml_vignette()

use_yml_file  Write YAML to file

Description

Write yml objects to a file. use_yml_file() writes to any given file name. use_output_yml() creates file _output.yml, which can be used by multiple R Markdown documents. All documents located in the same directory as _output.yml will inherit its output options. Options defined within document YAML headers will override those specified in _output.yml. Note that use_output_yml() plucks the output field from yml; any other YAML top-level fields will be ignored. use_site_yml creates _site.yml for use with R Markdown websites and third-party tools like the distill package (see the R Markdown book for more). use_navbar_yml is a special type of site YAML that only specifies the navbar in _navbar.yml use_pkgdown_yml() and use_bookdown_yml() write YAML files specific to those packages; see the pkgdown and blogdown documentation for more.

Usage

use_yml_file(
  .yml = NULL,
  path,
  build_ignore = FALSE,
  git_ignore = FALSE,
quiet = FALSE
)

use_output_yml(
  .yml = NULL,
  path = ".",
  build_ignore = FALSE,
  git_ignore = FALSE,
  quiet = FALSE
)

use_site_yml(
  .yml = NULL,
  path = ".",
  build_ignore = FALSE,
  git_ignore = FALSE,
  quiet = FALSE
)

use_navbar_yml(
  .yml = NULL,
  path = ".",
  build_ignore = FALSE,
  git_ignore = FALSE,
  quiet = FALSE
)

use_pkgdown_yml(
  .yml = NULL,
  path = ".",
  build_ignore = TRUE,
  git_ignore = FALSE,
  quiet = FALSE
)

use_bookdown_yml(
  .yml = NULL,
  path = ".",
  build_ignore = FALSE,
  git_ignore = FALSE,
  quiet = FALSE
)

Arguments

.yml a yml object created by yml(), as_yml(), or returned by a yml_*() function
path a file path to write the file to
build_ignore Logical. Should the file be added to the .Rbuildignore file?
**yml**

Create a new yml object

---

**Description**

`yml()` initializes a `yml` object. `yml` objects create valid YAML and print it cleanly to the console. By default, `yml()` looks for your name (using `getOption("usethis.full_name")`, `getOption("devtools.name")`, and `whoami::fullname()`) and uses today’s date to use in the author and date fields, respectively. If you’ve set default YAML in `getOption("ymlthis.default_option")` (see `use_yml_defaults()`), `yml()` will also use include those fields by default. `yml_empty()` is a wrapper that doesn’t use any of these default YAML fields. `yml()` and all related `yml_*()` functions validate that the results are indeed valid YAML syntax, although not every function is able to check that the input fields are valid for the setting they are used in.

**Usage**

```
yml(.yml = NULL, get_yml = TRUE, author = TRUE, date = TRUE)

yml_empty()
```

**Arguments**

- `.yml` a character vector, `yml` object, or YAML-like list. See details.
- `get_yml` logical. Use YAML stored in `getOption("ymlthis.default_option")`? By default, `yml()` includes if it exists.
- `author` logical. Get default author name?
- `date` logical. Get default date?
Details

`.yml` accepts a character vector of YAML, such as "author: Hadley Wickham", an object returned by `yml()`, or a list object (e.g. `list(author = "Hadley Wickham")`). `.yml` objects are processed with `as_yml()`, a wrapper around `yam::yaml.load()`. See that function for more details.

Value

A `yml` object

Examples

```r
yml()

yml(date = FALSE)

"author: Hadley Wickham\ndate: 2014-09-12" %>%
  yml() %>%
  yml_title("Tidy Data") %>%
  yml_keywords(
    c("data cleaning", "data tidying", "relational databases", "R")
  )

yml() %>%
  yml_author(
    c("Yihui Xie", "Hadley Wickham"),
    affiliation = rep("RStudio", 2)
  ) %>%
  yml_date("07/04/2019") %>%
  yml_output(
    pdf_document(
      keep_tex = TRUE,
      includes = includes2(after_body = "footer.tex")
    )
  ) %>%
  yml_latex_opts(biblio_style = "apalike")
```

---

**yml_author**

*Set Top-level R Markdown YAML Fields*

Description

These functions add common top-level YAML fields for R Markdown documents, such as `author`, `date`, and `title`. Each takes a `yml` object and adds fields related to the function, as well as checking for duplicate fields and (where possible) checking for valid entries. `yml_toplevel()` is a catch-all function that will take any named R object and put in the top level of the YAML; it checks for duplicate fields but is unable to validate the input beyond that it is valid YAML syntax. Some R
Markdown templates allow for additional variations of the YAML here. For instance, the distill package adds `url` and `affiliation_url` to the `author` field (see `yml_distill_author`, which wraps `yml_author`). Several `yml_*()` functions also contain `...` which allow for these unique fields.

**Usage**

```r
yml_author(.yml, name = NULL, affiliation = NULL, email = NULL, ...)
```

```r
yml_date(.yml, date = NULL, format = "")
```

```r
yml_title(.yml, title)
```

```r
yml_subtitle(.yml, subtitle)
```

```r
yml_abstract(.yml, abstract)
```

```r
yml_keywords(.yml, keywords)
```

```r
yml_subject(.yml, subject)
```

```r
yml_description(.yml, description)
```

```r
yml_category(.yml, category)
```

```r
yml_lang(.yml, lang)
```

```r
yml_toplevel(.yml, ...)
```

**Arguments**

- `.yml` a `yml` object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function
- `name` A character vector, name of the author(s)
- `affiliation` The author’s affiliation; must match length of `name`, e.g. if `name` has length of two, `affiliation` must as well; use `NA` if you don’t want to include an affiliation for a given author. Note that not all formats support the `affiliation` field.
- `email` The author email address. Note that not all formats support the `email` field.
- `...` additional named R objects, such as characters or lists, to transform into YAML
- `date` The date; by default this is `"\r format(Sys.Date())\"`, which will populate the date automatically.
- `format` When the default date is used, the format passed to `format.Date()`.
- `title` A character vector, the title of the document
- `subtitle` A character vector, the subtitle of the document. Not all R Markdown formats use subtitles, so it may depend on what you use in the output field (see `yml_output()`). It is available in `pdf_document()`, `html_document()`, and `word_document()` by default.
abstract

A character vector, the abstract. Long character vectors are automatically wrapped using valid YAML syntax. This field is not available in all output formats; it is available in pdf_document() and html_document() by default.

keywords

A character vector of keywords. This field is not available in all output formats; it is available in pdf_document(), html_document(), word_document(), odt_document(), and powerpoint_presentation() by default.

subject

A character vector, the subject of the document. This field is not available in all output formats; it is available in pdf_document(), html_document(), word_document(), odt_document(), and powerpoint_presentation() by default.

description

A character vector, a description of the document. This field is not available in all output formats; it is available in word_document(), odt_document(), and powerpoint_presentation() by default.

category

A character vector, the category of the document. This field is not available in all output formats; it is available in word_document() and powerpoint_presentation() by default.

lang

The document language using IETF language tags such as "en" or "en-US". The Language subtag lookup tool can help find the appropriate tag.

Value

a yml object

See Also

Other yml: asis_yaml_output(), bib2yml(), draw_yml_tree(), has_field(), read_json(), use_yml_defaults(), use_yml_file(), use_yml(), yml_blogdown_opts(), yml_bookdown_opts(), yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(), yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(), yml_rscconnect_email(), yml_rtticles_opts(), yml_runtime(), yml_site_opts(), yml_toc(), yml_vignette()

Examples

yml_empty() %>%
yml_author("Yihui Xie") %>%
yml_date("02-02-2002") %>%
yml_title("R Markdown: An Introduction") %>%
yml_subtitle("Introducing yamlthis") %>%
yml_abstract("This paper will discuss a very important topic") %>%
yml_keywords(c("r", "reproducible research")) %>%
yml_subject("R Markdown") %>%
yml_description("An R Markdown reader") %>%
yml_category("r") %>%
yml_lang("en-US")
yml_blank

Return a blank object to be discarded from YAML

Description

yml this treats NULL, NA, and other common argument defaults as literal (e.g. author = NULL will produce "author: null"). yml_blank() is a helper function to indicate that the field should not be included. yml_blank() is primarily used as a default argument for fields that should not be included by default.

Usage

yml_blank()

is_yml_blank(x)

Arguments

x a field from a yml object

Value

a yml_blank object

See Also

yml_discard(), yml_replace()

Examples

yml() %>%
yml_replace(author = yml_blank()) %>%
yml_discard(~is_yml_blank(.x))
Description

YAML in blogdown comes from a variety of sources. Most YAML will be for your posts, as described in the blogdown book. Common R Markdown fields can be used, but there are two other main sources for YAML fields: Hugo itself and the Hugo theme you are using. Hugo has numerous top-level YAML to control the output (see the Hugo documentation). `yml_blogdown_opts()` supports Hugo YAML. Your Hugo theme may also add fields to use. To find YAML specific to your theme, see `blogdown_template()`. In addition to these sources of YAML, the configuration file for your blog can also be in YAML, but this is not very common; most use a config.toml file, based on TOML (see the blogdown book for more).

Usage

```r
yml_blogdown_opts(
  .yml,
  draft = yml_blank(),
  publishdate = yml_blank(),
  weight = yml_blank(),
  slug = yml_blank(),
  aliases = yml_blank(),
  audio = yml_blank(),
  date = yml_blank(),
  description = yml_blank(),
  expiration_date = yml_blank(),
  headless = yml_blank(),
  images = yml_blank(),
  keywords = yml_blank(),
  layout = yml_blank(),
  lastmod = yml_blank(),
  link_title = yml_blank(),
  resources = yml_blank(),
  series = yml_blank(),
  summary = yml_blank(),
  title = yml_blank(),
  type = yml_blank(),
  url = yml_blank(),
  videos = yml_blank(),
  ...
)
```

Arguments

- `.yml` a yml object created by `yml()`, as_yml(), or returned by a yml_*() function
- `draft` Logical. Set post as a draft? Draft posts will not be rendered if the site is built via blogdown::build_site() or blogdown::hugo_build() but will be rendered in the local preview mode. See Section D.3 of the blogdown book.
- `publishdate` A future date to publish the post. Future posts are only rendered in the local preview mode.
weight

This field can take a numeric value to tell Hugo the order of pages when sorting them, e.g., when you generate a list of all pages under a directory, and two posts have the same date, you may assign different weights to them to get your desired order on the list.

slug

A character string used as the tail of the post URL. It is particularly useful when you define custom rules for permanent URLs. See Section 2.2.2 of the blogdown book.

aliases

A character vector of one or more aliases (e.g., old published paths of renamed content) that will be created in the output directory structure.

audio

A character vector of paths to audio files related to the page.

date

The date assigned to this page. This is usually fetched from the date field in front matter, but this behavior is configurable.

description

The description for the content.

expiration_date

the date at which the content should no longer be published by Hugo. Note that the actual YAML field is expiryDate.

headless

if TRUE, sets a leaf bundle to be headless.

images

A character vector of paths to images related to the page.

keywords

A character vector of the keywords for the content.

layout

The layout Hugo should use while rendering the content. By default, layout matches type and is thus based on the directory. However, it’s possible to use additional layouts within a type. See Hugo’s Defining a Content Type documentation.

lastmod

The date the content was last modified at.

link_title

used for creating links to content. Note that the actual YAML field is linkTitle.

resources

A named list. Used for configuring page bundle resources. See Hugo’s Page Resources documentation.

series

A character vector of series this page belongs to.

summary

A summary of the content in the .Summary Hugo page variable; see the content-summaries section of Hugo’s documentation.

title

The title for the content.

type

The type of the content, which is based on the from the directory of the content if not specified.

url

The full path to the content from the web root.

videos

A character vector of paths to videos related to the page.

... additional named R objects, such as characters or lists, to transform into YAML.

Value

a yml object
See Also

Other yml: asis_yml_output(), bib2yml(), draw_yml_tree(), has_field(), read_json(), use_yml_defaults(), use_yml_file(), use_yml(), yml_author(), yml_bookdown_opts(), yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(), yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(), yml_rsconnect_email(), yml_rticles_opts(), yml_runtime(), yml_site_opts(), yml_toc(), yml_vignette()

Examples

```r
yml() %>%
  yml_blogdown_opts(
    draft = TRUE,
    slug = "blog-post"
  )
```

---

### yml_bookdown_opts

*Set Top-level YAML options for bookdown*

**Description**

bookdown uses YAML in three main places, as described in the bookdown book: `index.Rmd`, `_output.yml`, and `_bookdown.yml`. `index.Rmd` can take most YAML. `_output.yml` is intended for output-related YAML, such as that produced by `yml() %>% yml_output(bookdown::pdf_book())`. `_bookdown.yml` is intended for configuring the build of the book. Pass the results of the `yml_*()` functions to `use_index_rmd()`, `use_bookdown_yml()`, `use_output_yml()` to write them to these files. `yml_bookdown_site()` adds the site: "bookdown::bookdown_site" to the YAML metadata.

**Usage**

```r
yml_bookdown_opts(
  .yml,
  book_filename = yml_blank(),
  delete_merged_file = yml_blank(),
  before_chapter_script = yml_blank(),
  after_chapter_script = yml_blank(),
  edit = yml_blank(),
  history = yml_blank(),
  rmd_files = yml_blank(),
  rmd_subdir = yml_blank(),
  output_dir = yml_blank(),
  clean = yml_blank(),
  ...
)
```

```r
yml_bookdown_site(.yml)
```
Arguments

*.yml* a *yml* object created by *yml(), as_yml(), or returned by a *yml_*() function

**book_filename** A character vector, the filename of the main .Rmd file, the .Rmd file that is created by merging all chapters. By default, it is called "_main.Rmd".

**delete_merged_file** Logical. Delete the main .Rmd file if it exists?

**before_chapter_script, after_chapter_script** A character vector of one or more R scripts to be executed before or after each chapter

**edit** A URL that collaborators can click to edit the .Rmd source document of the current page, usually a link to a GitHub repository. This link should have %s where the actual .Rmd filename for each page will go.

**history** Similar to edit, a link to the edit/commit history of the current page.

**rmd_files** A character vector, the order order of .Rmd files for the book. rmd_files can also be a named list where each element of the list is named for the output type, e.g. "html" or "latex". By default, bookdown merges all .Rmd files by the order of filenames.

**rmd_subdir** whether to search for book source .Rmd files in subdirectories (by default, only the root directory is searched). This may be either a boolean (e.g. TRUE will search for book source .Rmd files in the project directory and all subdirectories) or vector of paths if you want to search for book source .Rmd files in a subset of subdirectories.

**output_dir** the output directory of the book ("_book" by default)

**clean** a character vector of files and directories to be cleaned by the bookdown::clean_book() function.

**...** additional named R objects, such as characters or lists, to transform into YAML

Value

a *yml* object

See Also

use_index_rmd() use_bookdown_yml() use_output_yml()

Other *yml*: asis_yaml_output(), bib2yml(), draw_yaml_tree(), has_field(), read_json(), use_yaml_defaults(), use_yaml_file(), use_yaml(), yml_author(), yml_blogdown_opts(), yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(), yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(), yml_rsconnect_email(), yml_rticles_opts(), yml_runtime(), yml_site_opts(), yml_toc(), yml_vignette()

Other bookdown: gitbook_config()
Examples

```r
yml_empty() %>%
yml_bookdown_opts(
  before_chapter_script = c("script1.R", "script2.R"),
  after_chapter_script = "script3.R",
  edit = "https://github.com/rstudio/bookdown-demo/edit/master/%s",
  output_dir = "book-output",
  clean = c("my-book.bbl", "R-packages.bib")
)

yml_empty() %>%
yml_bookdown_opts(
  rmd_files = list(
    html = c("index.Rmd", "abstract.Rmd", "intro.Rmd"),
    latex = c("abstract.Rmd", "intro.Rmd")
  )
)

x <- yml_empty() %>%
yml_title("A Minimal Book Example") %>%
yml_date(yml_code(Sys.Date())) %>%
yml_author("Yihui Xie") %>%
yml_bookdown_site() %>%
yml_latex_opts(
  documentclass = "book",
  bibliography = c("book.bib", "packages.bib"),
  biblio_style = "apalike"
) %>%
yml_citations(
  link_citations = TRUE
) %>%
yml_description("This is a minimal example of using
the bookdown package to write a book.")

x

output_yml <- yml_empty() %>%
yml_output(
  bookdown::gitbook(
    lib_dir = "assets",
    split_by = "section",
    config = gitbook_config(toolbar_position = "static")
  ),
  bookdown::pdf_book(keep_tex = TRUE),
  bookdown::html_book(css = "toc.css")
)
output_yml
```

---

### yml_bookdown_opts

Examples

- `yml_bookdown_opts` function is used to configure bookdown settings.
- The `book_filename` parameter sets the name of the book.
- `before_chapter_script` and `after_chapter_script` parameters specify scripts to run before and after each chapter.
- `edit` parameter links the book to a GitHub repository.
- `output_dir` parameter specifies the output directory.
- `clean` parameter specifies files to clean.

```r
x <- yml_empty() %>%
yml_title("A Minimal Book Example") %>%
yml_date(yml_code(Sys.Date())) %>%
yml_author("Yihui Xie") %>%
yml_bookdown_site() %>%
yml_latex_opts(
  documentclass = "book",
  bibliography = c("book.bib", "packages.bib"),
  biblio_style = "apalike"
) %>%
yml_citations(
  link_citations = TRUE
) %>%
yml_description("This is a minimal example of using
the bookdown package to write a book.")

x

output_yml <- yml_empty() %>%
yml_output(
  bookdown::gitbook(
    lib_dir = "assets",
    split_by = "section",
    config = gitbook_config(toolbar_position = "static")
  ),
  bookdown::pdf_book(keep_tex = TRUE),
  bookdown::html_book(css = "toc.css")
)
output_yml
```
yml_citations

Set citation-related YAML options

Description

yml_citations() sets citation-related YAML fields, such as specifying a bibliography file or style. For controlling the citation engine in PDF documents, see the citation_package argument in rmarkdown::pdf_document().

Usage

yml_citations(
  .yml,
  bibliography = yml_blank(),
  biblio_style = yml_blank(),
  biblio_title = yml_blank(),
  csl = yml_blank(),
  citation_abbreviations = yml_blank(),
  link_citations = yml_blank(),
  nocite = yml_blank(),
  suppress_bibliography = yml_blank()
)

Arguments

.yml a yml object created by yml(), as_yml(), or returned by a yml_*() function
bibliography a path to a bibliography file, such as a .bib file
biblio_style bibliography style, when used with natbib and biblatex. Note that the actual YAML field is biblio-style
biblio_title bibliography title, when used with natbib and biblatex. Note that the actual YAML field is biblio-title
csl a path to a Citation Style Language (CSL) file. CSL files are used to specify the citation style; see the CSL repository for the CSL files of dozens of journals.
citation_abbreviations Path to a CSL abbreviations JSON file. See the pandoc-citeproc documentation. Note that the actual YAML field is citation-abbreviations.
link_citations Logical. Add citations hyperlinks to the corresponding bibliography entries? Note that the actual YAML field is link-citations.
nocite Citation IDs ("@item") to include in the bibliography even if they are not cited in the document. Including the wildcard pattern "@*" will include all citations in the bibliography regardless of if they’re cited in the document.
suppress_bibliography Logical. Suppress bibliography?
yml_clean

Value

a yml object

See Also

Other yml: asis_yml_output(), bib2yml(), draw_yml_tree(), has_field(), read_json(), use_yaml_defaults(), use_yaml_file(), use_yml(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(), yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(), yml_rsconnect_email(), yml_rtdcites_opts(), yml_runtime(), yml_site_opts(), yml_toc(), yml_vignette()

Other citations: bib2yml(), yml_reference()

Examples

```r
yml() %>%
  yml_clean
  %>%
  yml_citations(bibliography = "references.bib", csl = "aje.csl")
```

---

**yml_clean**

*Remove intermediate rendering files*

Description

R Markdown may create many documents while rendering the final product, for instance by using knitr to turn the R Markdown file to a Markdown file and then using Pandoc to convert to the final output. The clean field tells R Markdown whether or not to remove these files.

Usage

`yml_clean(.yml, clean)`

Arguments

- `.yml`  
a yml object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function
- `clean`  
Logical. Remove intermediate files that are created while making the R Markdown document?

Value

a yml object
**See Also**

Other yml: `asis_yml_output()`, `bib2yml()`, `draw_yml_tree()`, `has_field()`, `read_json()`,
`use_yml_defaults()`, `use_yml_file()`, `use_yml()`, `yml_author()`, `yml_blogdown_opts()`,
`yml_bookdown_opts()`, `yml_citations()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_output()`, `yml_pagedown_opts()`,
`yml_params()`, `yml.pkgdown()`, `yml_reference()`, `yml_replace()`, `yml_resource_files()`,
`yml_rsconnect_email()`, `yml_rtilices_opts()`, `yml_runtime()`, `yml_site_opts()`, `yml_toc()`,
`yml_vignette()`

Other R Markdown: `yml_params()`, `yml_runtime()`, `yml_site_opts()`, `yml_vignette()`

**Examples**

```r
yml() %>%
  # keep intermediate files
  yml_clean(FALSE)
```

---

**yml_code** *(Take code and write it as valid YAML)*

**Description**

`yml_code()` takes R code and writes it as valid YAML to be evaluated during knitting. Note that
`yml_code()` does not evaluate or validate the R code but only captures it to use in the YAML field.
R code needs to be formatted differently when using in the `params` field for parameterized reports;
yml_params_code will format this correctly for you.

**Usage**

```r
yml_code(x)
```

**Arguments**

- `x` : valid R code

**Value**

a character vector with class `verbatim`

**See Also**

`yml_verbatim()`
Examples

```r
yml_empty() %>%
 yml_date(yml_code(sys.Date()))

yml_empty() %>%
 yml_params(date = yml_params_code(sys.Date()))
```

---

### yml_distill_opts

**Set Top-level YAML options for distill**

**Description**

`distill` uses many custom YAML fields to create some of its unique features, such as article metadata and citations. In addition to the arguments in `yml_distill_opts()`, `ymlthis` supports `distill` in a number of other ways. `yml_distill_author()` wraps `yml_author()` to include these extra used in `distill`. For a `distill` blog, you can specify the listings page a post belongs to, including an optional vector of other posts to list with it; `distill_listing()` is a helper function to pass to the listing argument to specify such pages. `distill` uses the same approach to navbars as R Markdown. `yml_navbar()` and friends will help you write the YAML for that. YAML specifying the site build, like the output field and navbars, can also be placed in _site.yml; see `yml_site_opts()` for further R Markdown website build options and `use_site_yml()` for creating that file based on a `yml` object. `distill`’s YAML options are discussed in greater detail in the articles on the `distill` website.

**Usage**

```r
yml_distill_opts(
  .yml,
  draft = yml_blank(),
  slug = yml_blank(),
  categories = yml_blank(),
  listing = yml_blank(),
  collection = yml_blank(),
  citation_url = yml_blank(),
  preview = yml_blank(),
  repository_url = yml_blank(),
  base_url = yml_blank(),
  compare_updates_url = yml_blank(),
  creative_commons = yml_blank(),
  twitter_site = yml_blank(),
  twitter_creator = yml_blank(),
  journal_title = yml_blank(),
  journal_issn = yml_blank(),
  journal_publisher = yml_blank(),
  volume = yml_blank(),
  issue = yml_blank(),
)```
doι = yml_blank(),
resources = yml_blank(),
)

yml_distill_author(
  .yml,
  name = yml_blank(),
  url = yml_blank(),
  affiliation = yml_blank(),
  affiliation_url = yml_blank(),
  orcid_id = yml_blank()
)

distill_listing(listing_name = 'posts', slugs = NULL)

distill_collection(
  collection_name = 'post',
  feed_items_max = yml_blank(),
  disqus_name = yml_blank(),
  disqus_hidden = yml_blank(),
  share = yml_blank(),
  citations = yml_blank(),
  subscribe = yml_blank()
)

distill_resources(include = yml_blank(), exclude = yml_blank())

Arguments

Argument          Description

.yml              a yml object created by yml(), as_yml(), or returned by a yml_*() function

draft             Logical. Set the post to be a draft? Draft posts won’t be published.

slug              The abbreviated version of the citation included in the BibTeX entry. If you
don’t provide a slug then one will be automatically generated.

categories        A character vector, the post categories

listing           The listing a post is under; either a character vector, the output of distill_listing(),
or a named list.

collection        Specify the RSS, sharing, and other settings of a listing; use distill_collection() or
                   a named list.

citation_url      A URL to the article; automatically generated for blog articles

preview           A path or link to the preview image for your article. You can also set this by
                   including preview = TRUE in an R Markdown code chunk in your document.

repository_url    A URL where the source code for your article can be found

base_url          Base (root) URL for the location where the website will be deployed (used for
                   providing preview images for Open Graph and Twitter Card)
compare_updates_url
a URL that will show the differences between the article’s current version and the version that was initially published.

creative_commons
Designate articles that you create as Creative Commons licensed by specifying one of the standard Creative Commons licenses. Common options include "CC BY", "CC BY-SA", "CC BY-ND", and "CC BY-NC". See the distill vignette for more details.

twitter_site
The Twitter handle for the site

twitter_creator
The Twitter handle for the creator

journal_title
The title of the journal

journal_issn
The issn of the journal

journal_publisher
The publisher of the journal

volume
The volume the article is on

issue
The issue the article is on

doi
The article Digital Object Identifier (DOI)

resources
Files to include or exclude while publishing. Use distill_resources() or a named list to specify.

... additional named R objects, such as characters or lists, to transform into YAML

name
A character vector, name of the author(s)

url
The author URL

affiliation
The author’s affiliation; must match length of name, e.g. if name has length of two, affiliation must as well; use NA if you don’t want to include an affiliation for a given author. Note that not all formats support the affiliation field.

affiliation_url
the affiliation URL

orcid_id
the author’s ORCID ID

listing_name
A character vector, the name of the listing

slugs
A character vector of the posts to include in the listing

collection_name
A character vector, the name of the collection

feed_items_max
Number of articles to include in the RSS feed (default: 20). Specify FALSE to have no limit on the number of items included in the feed.

discus_name
A shortname for the disqus comments section (base_url field is required in order to use Disqus)

discus_hidden
Logical. Show full text of disqus comments? By default, this is FALSE so as not to obscure the bibliography and other appendices.

share
Share buttons to include. Choices: "twitter", "linkedin", "facebook", "google-plus", and "pinterest". (base_url field is required in order to use sharing links)
The `yml_distill_opts` function provides options for distilling blog posts.

- **citations**: Logical. If your `_site.yml` file provides a `base_url` field, an article citation appendix and related metadata will be included automatically within all published posts. Set to `FALSE` to disable this behavior.

- **subscribe**: a path to a HTML file enabling readers to subscribe. See the `distill vignette` on blog posts for more details.

- **include, exclude**: a character vector of files to explicitly include or exclude when publishing a post. Can use wild cards, such as `"*.csv"`.

### Value

A `yml` object.

### See Also

- `use_site_yml()`
- `use_rmarkdown()`

Other `yml`: `asis_yaml_output()`, `bib2yml()`, `draw_yml_tree()`, `has_field()`, `read_json()`,

- `use_yml_defaults()`
- `use_yml_file()`
- `use_yml()`
- `yml_author()`
- `yml_blogdown_opts()`
- `yml_bookdown_opts()`
- `yml_citations()`
- `yml_clean()`
- `yml_latex_opts()`
- `yml_output()`
- `ymlpagedown_opts()`
- `yml_params()`
- `yml_pkgdown()`
- `yml_reference()`
- `yml_replace()`
- `yml_resource_files()`
- `ymlrsconnect_email()`
- `ymlrticles_opts()`
- `ymlruntime()`
- `ymlsite_opts()`
- `ymltoc()`
- `yml_vignette()`

Other websites: `yml_pkgdown()`, `yml_site_opts()`

### Examples

```r
post_listing <- distill_listing(
  slugs = c(
    "2016-11-08-sharpe-ratio",
    "2017-11-09-visualizing-asset-returns",
    "2017-09-13-asset-volatility"
  )
)

yml() %>%
  yml_title("Gallery of featured posts") %>%
  yml_distill_opts(listing = post_listing)

yml_empty() %>%
  yml_title("Reproducible Finance with R") %>%
  yml_description("Exploring reproducible finance with the R statistical,
  computing environment.") %>%
  yml_site_opts(name = "reproducible-finance-with-r") %>%
  yml_distill_opts(
  base_url = "https://beta.rstudioconnect.com/content/3776/",
  collection = distill_collection(
    feed_items_max = 30,
    disqus_name = "reproducible-finance-with-r",
    disqus_hidden = FALSE,
    share = c("twitter", "linkedin")
)
**yml_handlers**

*Set handlers to process the way YAML is printed*

**Description**

`yml_handlers` uses the `yaml` package to process and validate YAML; this package also lets you specify how fields and values are printed using a list of handler functions. `yml_handlers` specifies defaults for the package used in the print statement. See `yaml::yaml.load()` for more on specifying handlers.

**Usage**

```r
yml_handlers()
```

---

**yml_latex_opts**

*Set LaTeX YAML options for PDF output*

**Description**

`yml_latex_opts()` sets top-level YAML fields for LaTeX options used by pandoc (see the documentation, from which these descriptions were derived), as when making a PDF document with `pdf_document()`.

**Usage**

```r
yml_latex_opts(
  .yml,
  block_headings = yml_blank(),
  classoption = yml_blank(),
  documentclass = yml_blank(),
  geometry = yml_blank(),
  indent = yml_blank(),
  linestretch = yml_blank(),
  margin_left = yml_blank(),
  margin_right = yml_blank(),
  margin_top = yml_blank(),
  margin_bottom = yml_blank(),
  pagestyle = yml_blank(),
  papersize = yml_blank(),
  secnumdepth = yml_blank(),
  fontenc = yml_blank(),
  fontfamily = yml_blank(),
)```
fontfamilyoptions = yml_blank(),
fontsize = yml_blank(),
mainfont = yml_blank(),
sansfont = yml_blank(),
monofont = yml_blank(),
mathfont = yml_blank(),
CJKmainfont = yml_blank(),
mainfontoptions = yml_blank(),
sansfontoptions = yml_blank(),
monofontoptions = yml_blank(),
mathfontoptions = yml_blank(),
CJKoptoptions = yml_blank(),
microtypeoptions = yml_blank(),
colorlinks = yml_blank(),
linkcolor = yml_blank(),
filecolor = yml_blank(),
citecolor = yml_blank(),
urlcolor = yml_blank(),
toccolor = yml_blank(),
links_as_notes = yml_blank(),
lof = yml_blank(),
lot = yml_blank(),
thanks = yml_blank(),
toc = yml_blank(),
toc_depth = yml_blank(),
biblatexoptions = yml_blank(),
biblio_style = yml_blank(),
biblio_title = yml_blank(),
bibliography = yml_blank(),
natbiboptions = yml_blank()
)

Arguments

.yml a yml object created by yml(), as_yml(), or returned by a yml_*() function

block_headings make paragraph and subparagraph (fourth- and fifth-level headings, or fifth- and sixth-level with book classes) free-standing rather than run-in; requires further formatting to distinguish from subsubsection (third- or fourth-level headings). Note that the YAML field is actually called block-headings.

classoption a character vector of options for document class, e.g. "oneside"

documentclass the document class usually "article", "book", or "report"

gometry a character vector of options for the geometry LaTeX package, e.g. "margin=1in"

indent Logical. Use document class settings for indentation? The default LaTeX template otherwise removes indentation and adds space between paragraphs.

linestretch adjusts line spacing using the setspace LaTeX package, e.g. 1.25, 1.5
**yml_latex_opts**

- `margin_left, margin_right, margin_top, margin_bottom`: sets margins if geometry is not used, otherwise geometry overrides these. Note that the actual YAML fields use `-` instead of `_`, e.g. `margin-left`.

- `pagestyle`: control the `pagestyle` LaTeX command: the default article class supports "plain" (default), "empty" (no running heads or page numbers), and "headings" (section titles in running heads).

- `papersize`: paper size, e.g. letter, a4

- `secnumdepth`: numbering depth for sections (with `--number-sections` pandoc)

- `fontenc`: allows font encoding to be specified through `fontenc` LaTeX package (with pdflatex); default is "T1" (see LateX font encodings guide)

- `fontfamily`: font family for use with pdflatex: TeX Live includes many options, documented in the LaTeX Font Catalogue. The default is "Latin Modern".

- `fontfamilyoptions`: a character vector of options for `fontfamily`.

- `fontsize`: font size for body text. The standard classes allow "10pt", "11pt", and "12pt".

- `mainfont, sansfont, monofont, mathfont, CJKmainfont`: font families for use with xelatex or lualatex: take the name of any system font, using the fontspec LaTeX package. CJKmainfont uses the xecjk LaTeX package.


- `microtypeoptions`: a character vector of options to pass to the microtype LaTeX package.

- `colorlinks`: Logical. Add color to link text? Automatically enabled if any of `linkcolor`, `filecolor`, `citestyle`, `urlcolor`, or `toccolor` are set.

- `linkcolor, filecolor, citestyle, uricolor, toccolor`: color for internal links, external links, citation links, linked URLs, and links in table of contents, respectively: uses options allowed by xcolor, including the dvipsnames, svgnames, and x11names lists.

- `links_as_notes`: Logical. Print links as footnotes? Note that the actual YAML field is `links-as-notes`.

- `lof, lot`: Logical. Include list of figures or list of tables?

- `thanks`: contents of acknowledgments footnote after document title

- `toc`: include table of contents

- `toc_depth`: level of section to include in table of contents. Note that the actual YAML field is `toc-depth`.

- `biblatexoptions`: list of options for `biblatex`.

- `biblio_style`: bibliography style, when used with `natbib` and `biblatex`. Note that the actual YAML field is `biblio-style`.

- `biblio_title`: bibliography title, when used with `natbib` and `biblatex`. Note that the actual YAML field is `biblio-title`.

- `bibliography`: a path to the bibliography file to use for references

- `natbiboptions`: a character vector of options for `natbib`
yml_load

Value

a yml object

See Also

Other yml: asis_yaml_output(), bib2yml(), draw_yml_tree(), has_field(), read_json(), use_yml_defaults(), use_yml_file(), use_yml(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(), yml_citations(), yml_clean(), yml_distill_opts(), yml_output(), yml_pagedown_opts(), yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(), yml_rsconnect_email(), yml_rticles_opts(), yml_runtime(), yml_site_opts(), yml_toc(), yml_vignette()

Examples

c("title: my title", "author: Malcolm Barrett") %>%
yml_load()
yml_output

Capture, validate, and write output YAML

Description

`yml_output()` writes valid YAML for the output field of R Markdown YAML. `yml_output()` captures the actual output functions, such as `pdf_document()`, and translates them to YAML. This function accepts multiple output formats (separated by commas) and validates each by evaluating the function internally. The YAML fields in `output` come from arguments in their respective R functions. If you wanted to see the available fields in `pdf_document()`, for instance, you would read the documentation for that function using `?pdf_document`.

Usage

```
yml_output(.yml, ...)```

Arguments

.. `.yml`: a yml object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function

`...`: valid R code calling functions that return objects of class `rmarkdown_output_format`, such as the `*_document()` functions in `rmarkdown`.

Value

a yml object

See Also

Other yml: `asis_yaml_output()`, `bib2yml()`, `draw_yaml_tree()`, `has_field()`, `read_json()`, `use_yaml_defaults()`, `use_yaml_file()`, `use_yml()`, `yml_author()`, `yml_blogdown_opts()`, `yml_bookdown_opts()`, `yml_citations()`, `yml_clean()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_pagedown_opts()`, `yml_params()`, `yml_pkgdown()`, `yml_reference()`, `yml_replace()`, `yml_resource_files()`, `yml_rscconnect_email()`, `yml_return_options()`, `yml_runtime()`, `yml_site_opts()`, `yml_toc()`, `yml_vignette()`

Examples

```
yml() %>%
  yml_output(html_document())
```

```
yml() %>%
  yml_output(
    pdf_document(keep_tex = TRUE, includes = includes2(after_body = "footer.tex")),
    bookdown::html_document2()
  )
```
yml_pagedown_opts  Top-level YAML options for pagedown

Description

pagedown offers several output functions for paginated output, resumes, business cards, theses, and more as described in the pagedown vignette. pagedown also accepts a few custom top-level YAML. See pagedown_business_card_template() for more on setting up the YAML for a business card.

Usage

```r
yml_pagedown_opts(
  .yml,  
  toc = yml_blank(),  
  toc_title = yml_blank(),  
  lot = yml_blank(),  
  lot_title = yml_blank(),  
  chapter_name = yml_blank(),  
  links_to_footnotes = yml_blank(),  
  paged_footnotes = yml_blank()
)
```

Arguments

- `.yml` a yml object created by yml(), as_yml(), or returned by a yml_*() function
- `toc` Logical. Use a table of contents?
- `toc_title` The title for the table of contents. Note that the actual YAML field is toc-title
- `lot` Logical. Use a list of figures?
- `lot_title` The title for the list of figures. Note that the actual YAML field is lot-title
- `chapter_name` The chapter title prefix
- `links_to_footnotes` Logical. Transform all the URLs to footnotes? Note that the actual YAML field is links-to-footnotes
- `paged_footnotes` Logical. Render notes as footnotes? Note that the actual YAML field is paged-footnotes

Value

a yml object
See Also

Other yml: `asis_yaml_output()`, `bib2yml()`, `draw_yml_tree()`, `has_field()`, `read_json()`, `use_yaml_defaults()`, `use_yaml_file()`, `use_yaml()`, `yml_author()`, `yml_bookdown_opts()`, `yml_citations()`, `yml_clean()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_output()`, `yml_params()`, `yml_pkgdown()`, `yml_reference()`, `yml_replace()`, `yml_resource_files()`, `yml_rsconnect_email()`, `yml_rvities_opts()`, `yml_runtime()`, `yml_site_opts()`, `yml_toc()`, `yml_vignette()`

Other pagedown: `pagedown_business_card_template()`

Examples

```r
yml() %>%
yml_pagedown_opts(
  toc = TRUE,
  toc_title = "TOC",
  chapter_name = c("CHAPTER\ ", ", ", ".),
  links_to_footnotes = TRUE
)
```

---

**yml_params**

Parameterize an R Markdown report using Shiny components

Description

R Markdown lets you add dynamic parameters to your report using the `params` YAML field (see the R Markdown book for examples); parameterized reports are also used in RStudio Connect. The values of these variables can be called inside your R Markdown document using `params$field_name`.

There are several ways to change the values of the parameters: manually change the YAML, use the `params` argument in `rmarkdown::render()`, or knit with parameters, which launches a Shiny app to select values for each. `yml_params()` accepts any number of named R objects to set as YAML fields. You can also pass arguments to the underlying Shiny functions using YAML. To set a shiny component, use the `shiny_*()` helper functions. `shiny_params()` captures a Shiny output function and transforms it to YAML. However, R Markdown supports only a limited number of components; each of these is included as a function starting with `shiny_*()`, e.g. `shiny_checkbox()`

Usage

```r
yml_params(.yml, ...)

shiny_params(.shiny)

shiny_checkbox(label, value = FALSE, width = NULL)

shiny_numeric(label, value, min = NA, max = NA, step = NA, width = NULL)

shiny_slider(
```
yml_params

label,
min,
max,
value,
step = NULL,
round = FALSE,
format = NULL,
locale = NULL,
ticks = TRUE,
animate = FALSE,
width = NULL,
sep = ",",
pre = NULL,
post = NULL,
timeFormat = NULL,
timezone = NULL,
dragRange = TRUE
)

shiny_date(
  label,
  value = NULL,
  min = NULL,
  max = NULL,
  format = "yyy-mm-dd",
  startview = "month",
  weekstart = 0,
  language = "en",
  width = NULL,
  autoclose = TRUE,
  datesdisabled = NULL,
  daysofweekdisabled = NULL
)

shiny_text(label, value = "", width = NULL, placeholder = NULL)

shiny_file(
  label,
  multiple = FALSE,
  accept = NULL,
  width = NULL,
  buttonLabel = "Browse...",
  placeholder = "No file selected"
)

shiny_radio(
  label,
  choices = NULL,
selected = NULL,
inline = FALSE,
width = NULL,
choiceNames = NULL,
choiceValues = NULL
)

shiny_select(
  label,
  choices,
  selected = NULL,
multiple = FALSE,
selectize = TRUE,
width = NULL,
size = NULL
)

shiny_password(label, value = "", width = NULL, placeholder = NULL)

Arguments

.ml a `yml` object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function

... additional named R objects, such as characters or lists, to transform into YAML

.shiny a Shiny function call to capture and convert to YAML

.label Display label for the control, or NULL for no label.

.value Initial value (TRUE or FALSE).

.width The width of the input, e.g. '400px', or '100%'; see `shiny::validateCssUnit()`

.min Minimum allowed value

.max Maximum allowed value

.step Interval to use when stepping between min and max

.round TRUE to round all values to the nearest integer; FALSE if no rounding is desired; or an integer to round to that number of digits (for example, 1 will round to the nearest 10, and -2 will round to the nearest .01). Any rounding will be applied after snapping to the nearest step.

.format Deprecated.

.locale Deprecated.

ticks FALSE to hide tick marks, TRUE to show them according to some simple heuristics.

.animate TRUE to show simple animation controls with default settings; FALSE not to; or a custom settings list, such as those created using `shiny::animationOptions()`

.sep Separator between thousands places in numbers.

.pre A prefix string to put in front of the value.

.post A suffix string to put after the value.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>timeFormat</code></td>
<td>Only used if the values are Date or POSIXt objects. A time format string, to be passed to the Javascript strftime library. See <a href="https://github.com/samsonjs/strftime">https://github.com/samsonjs/strftime</a> for more details. The allowed format specifications are very similar, but not identical, to those for R’s <code>base::strftime()</code> function. For Dates, the default is &quot;%F&quot; (like &quot;2015-07-01&quot;), and for POSIXt, the default is &quot;%F %T&quot; (like &quot;2015-07-01 15:32:10&quot;).</td>
</tr>
<tr>
<td><code>timezone</code></td>
<td>Only used if the values are POSIXt objects. A string specifying the time zone offset for the displayed times, in the format &quot;+HHMM&quot; or &quot;-HHMM&quot;. If NULL (the default), times will be displayed in the browser's time zone. The value &quot;+0000&quot; will result in UTC time.</td>
</tr>
<tr>
<td><code>dragRange</code></td>
<td>This option is used only if it is a range slider (with two values). If TRUE (the default), the range can be dragged. In other words, the min and max can be dragged together. If FALSE, the range cannot be dragged.</td>
</tr>
<tr>
<td><code>startview</code></td>
<td>The date range shown when the input object is first clicked. Can be &quot;month&quot; (the default), &quot;year&quot;, or &quot;decade&quot;.</td>
</tr>
<tr>
<td><code>weekstart</code></td>
<td>Which day is the start of the week. Should be an integer from 0 (Sunday) to 6 (Saturday).</td>
</tr>
<tr>
<td><code>autoclose</code></td>
<td>Whether or not to close the datepicker immediately when a date is selected.</td>
</tr>
<tr>
<td><code>datesdisabled</code></td>
<td>Which dates should be disabled. Either a Date object, or a string in yyyy-mm-dd format.</td>
</tr>
<tr>
<td><code>daysofweekdisabled</code></td>
<td>Days of the week that should be disabled. Should be a integer vector with values from 0 (Sunday) to 6 (Saturday).</td>
</tr>
<tr>
<td><code>placeholder</code></td>
<td>A character string giving the user a hint as to what can be entered into the control. Internet Explorer 8 and 9 do not support this option.</td>
</tr>
<tr>
<td><code>multiple</code></td>
<td>Whether the user should be allowed to select and upload multiple files at once. <strong>Does not work on older browsers, including Internet Explorer 9 and earlier.</strong></td>
</tr>
<tr>
<td><code>accept</code></td>
<td>A character vector of &quot;unique file type specifiers&quot; which gives the browser a hint as to the type of file the server expects. Many browsers use this prevent the user from selecting an invalid file. A unique file type specifier can be:</td>
</tr>
<tr>
<td></td>
<td>• A case insensitive extension like .csv or .rds.</td>
</tr>
<tr>
<td></td>
<td>• A valid MIME type, like text/plain or application/pdf</td>
</tr>
<tr>
<td></td>
<td>• One of audio/<em>, video/</em>, or image/* meaning any audio, video, or image type, respectively.</td>
</tr>
<tr>
<td><code>buttonLabel</code></td>
<td>The label used on the button. Can be text or an HTML tag object.</td>
</tr>
</tbody>
</table>
choices List of values to select from (if elements of the list are named then that name rather than the value is displayed to the user). If this argument is provided, then choiceNames and choiceValues must not be provided, and vice-versa. The values should be strings; other types (such as logicals and numbers) will be coerced to strings.

selected The initially selected value. If not specified, then it defaults to the first item in choices. To start with no items selected, use character(0).

inline If TRUE, render the choices inline (i.e. horizontally)

choiceNames List of names and values, respectively, that are displayed to the user in the app and correspond to each choice (for this reason, choiceNames and choiceValues must have the same length). If either of these arguments is provided, then the other must be provided and choices must not be provided. The advantage of using both of these over a named list for choices is that choiceNames allows any type of UI object to be passed through (tag objects, icons, HTML code, ...), instead of just simple text. See Examples.

choiceValues List of names and values, respectively, that are displayed to the user in the app and correspond to each choice (for this reason, choiceNames and choiceValues must have the same length). If either of these arguments is provided, then the other must be provided and choices must not be provided. The advantage of using both of these over a named list for choices is that choiceNames allows any type of UI object to be passed through (tag objects, icons, HTML code, ...), instead of just simple text. See Examples.

selectize Whether to use selectize.js or not.

size Number of items to show in the selection box; a larger number will result in a taller box. Not compatible with selectize=TRUE. Normally, when multiple=FALSE, a select input will be a drop-down list, but when size is set, it will be a box instead.

Value

a yml object

See Also

yml_params_code()

Other yml: asis_yml_output(), bib2yml(), draw_yml_tree(), has_field(), read_json(), use_yml_defaults(), use_yml_file(), use_yml(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(), yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(), yml_pkgsdown(), yml_reference(), yml_replace(), yml_resource_files(), yml_rsconnect_email(), yml_rtables_opts(), yml_runtime(), yml_site_opts(), yml_toc(), yml_vignette()

Other R Markdown: yml_clean(), yml_runtime(), yml_site_opts(), yml_vignette()

Other shiny: yml_runtime()

Examples

yml() %>%
Set Top-level YAML options for pkgdown

Description

These functions set YAML for various pkgdown options to be used in _pkgdown.yml. The options are described in greater depth in the pkgdown vignette and in the help pages for pkgdown::build_site(), pkgdown::build_articles(), pkgdown::build_reference(), and pkgdown::build_tutorials(). Essentially, they control the build of vignettes and function references. pkgdown also uses the same approach to navbars as R Markdown. yml_navbar() and friends will help you write the YAML for that. A useful approach to writing pkgdown YAML might be to use pkgdown_template() to build a template based on your package directory, modify with yml_pkgdown_*() and pkgdown_*() functions or yml_replace() and yml_discard(), then pass the results to use_pkgdown_yml() to write to _pkgdown.yml

Usage

yml_pkgdown(.yml, as_is = yml_blank(), extension = yml_blank())

yml_pkgdown_opts(
  .yml,
  site_title = yml_blank(),
  destination = yml_blank(),
  url = yml_blank(),
  toc_depth = yml_blank()
)

yml_pkgdown_development(
  .yml,
  mode = yml_blank(),
  dev_destination = yml_blank(),
  version_label = yml_blank(),
  version Tooltip = yml_blank()
)

yml_pkgdown_template(
  .yml,
  bootswatch = yml_blank(),
  ganalytics = yml_blank(),
noindex = yml_blank(),
package = yml_blank(),
path = yml_blank(),
assets = yml_blank(),
default_assets = yml_blank()
)

yml_pkgdown_reference(.yml, ...)

pkgdown_ref(
  title = yml_blank(),
  desc = yml_blank(),
  contents = yml_blank(),
  exclude = yml_blank(),
  ...
)

yml_pkgdown_news(.yml, one_page = yml_blank())

eyml_pkgdown_articles(.yml, ...)

pkgdown_article(
  title = yml_blank(),
  desc = yml_blank(),
  contents = yml_blank(),
  exclude = yml_blank(),
  ...
)

yml_pkgdown_tutorial(.yml, ...)

pkgdown_tutorial(
  name = yml_blank(),
  title = yml_blank(),
  tutorial_url = yml_blank(),
  source = yml_blank(),
  ...
)

yml_pkgdown_figures(
  .yml,
  dev = yml_blank(),
  dpi = yml_blank(),
  dev.args = yml_blank(),
  fig.ext = yml_blank(),
  fig.width = yml_blank(),
  fig.height = yml_blank(),
  fig.retina = yml_blank(),
fig.asp = yml_blank(),
...
)
yml_pkgdown_docsearch(
  .yml,
  api_key = yml_blank(),
  index_name = yml_blank(),
  doc_url = yml_blank()
)

Arguments

.yml a yml object created by yml(), as_yml(), or returned by a yml_*() function
as_is Logical. Use the output_format and options that you have specified?
estoration The output extension, e.g. "pdf".
site_title The title of the website (by default, this is the package name). Note that the actual YAML is title (specified as site_title to avoid duplication with content titles).
destination The path where the site should be rendered ("docs/" by default)
url URL where the site will be published; setting the URL will allow other pkgdown sites to link to your site when needed, generate a sitemap.xml to increase the searchability of your site, and generate a CNAME.
toc_depth The depth of the headers included in the Table of Contents. Note that the actual YAML is depth and is nested under toc.
mode The development mode of the site, one of: "auto", "release", "development", or "unreleased". development controls where the site is built; the color of the package version; the optional tooltip associated with the version; and the indexing of the site by search engines. See ?pkgdown::build_site() for more details.
dev_destination The subdirectory used for the development site, which defaults to "dev/". Note that the actual YAML is destination and is nested under development.
version_label Label to display for "development" and "unreleased" mode. One of: "danger" (the default), "default", "info", or "warning".
version_tooltip A custom message to include in the version tooltip
bootswatch A bootswatch theme for the site. See the options at https://rstudio.github.io/shinythemes/.
ganalytics A Google Analytics tracking id
noindex Logical. Suppress indexing of your pages by web robots?
package an R package with with directories inst/pkgdown/assets and inst/pkgdown/templates to override the default templates and add additional assets; alternatively, you can specify this in path and assets
path A path to templates with which to override the default pkgdown templates
assets A path to additional assets to include
default_assets Logical. Include default assets?
... additional named R objects, such as characters or lists, to transform into YAML
title The title of the article, reference, tutorial, or other resource
desc A description of the article or reference
contents The contents, which can also be dplyr-style tidy selectors (e.g. "contains('index')").
exclude What to exclude of the what's captured by contents
one_page Logical. Create one page per release for NEWS.md?
name The name of the file
tutorial_url The tutorial URL to embed in an iframe
source A URL to the source code of the tutorial
dev The graphics device (default: "grDevices::png")
dpi The DPI (default: 96)
dev.args A vector of arguments to pass to dev
fig.ext The figure extension (default: "png")
fig.width The figure width (default: 7.2916667)
fig.height The figure height (default: NULL)
fig.retina The figure retina value (default: 2)
fig.asp The aspect ratio (default: 1.618)
api_key The API key provided by docsearch (see the pkgdown vignette)
index_name The index name provided by docsearch (see the pkgdown vignette)
doc_url the URL specifying the location of your documentation. Note that the actual YAML field is url but is nested.

Value

a yml object

See Also

use_pkgdown_yml() yml_navbar()

Other yml: asis_yaml_output(), bib2yml(), draw_yaml_tree(), has_field(), read_json(), use_yaml_defaults(), use_yaml_file(), use_yml(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(), yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(), yml_params(), yml_reference(), yml_replace(), yml_resource_files(), yml_rsconnect_email(), yml_rticles_opts(), yml_runtime(), yml_site_opts(), yml_toc(), yml_vignette()

Other pkgdown: pkgdown_template()
Other websites: yml_distill_opts(), yml_site_opts()
yml_reference

Write references as YAML fields

Description

yml_reference() creates YAML fields for references to be used in citation. reference() is a simple function to add references to yml_reference(). The easiest way to add references to an R Markdown file is to use a bibliography file, such as .bib, in the bibliography field (see yml_citations()). For documents with very few references, however, it might be useful to make the references self-contained in the YAML. yml_reference() can also transform to YAML bibentry and citation objects created by bibentry() and citation(). To cite many R packages and convert the references to YAML, it may be better to use knitr::write_bib() to write a bibliography file and convert it with bib2yml().

Usage

yml_reference(.yml, ..., .bibentry = NULL)

reference(id = NULL, ...)

Arguments

.yml a yml object created by yml(), as_yml(), or returned by a yml_*() function
... Fields relevant to the citation (e.g. bibtex fields)
.bibentry An object created by bibentry() or citation(). Note that this requires pandoc-citeproc to be installed.
id a character vector to use as the reference ID

Examples

yml_empty() %>%
yml_pkgdown(
as_is = TRUE,
extension = "pdf"
) %>%
yml_pkgdown_reference(
pkgdown_ref(
title = "pkgdown functions",
contents = "contains('function_name')"
)
) %>%
yml_pkgdown_articles(
pkgdown_article(
title = "Introduction to the package"
)
)
Value

a yml object

See Also

Other yml: asis_yml_output(), bib2yml(), draw_yml_tree(), has_field(), read_json(), use_yml_defaults(), use_yml_file(), use_yml(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(), yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(), yml_pams(), yml_pkgdown(), yml_replace(), yml_resource_files(), yml_rsconnect_email(), yml_rticles_opts(), yml_runtime(), yml_site_opts(), yml_toc(), yml_vignette()

Other citations: bib2yml(), yml_citations()

Examples

ref <- reference(
  id = "fenner2012a",
  title = "One-click science marketing",
  author = list(
    family = "Fenner",
    given = "Martin"
  ),
  'container-title' = "Nature Materials",
  volume = 11L,
  URL = "https://doi.org/10.1038/nmat3283",
  DOI = "10.1038/nmat3283",
  issue = 4L,
  publisher = "Nature Publishing Group",
  page = "261-263",
  type = "article-journal",
  issued = list(
    year = 2012,
    month = 3
  )
)

yml() %>%
  yml_reference(ref)

# from ?bibentry
bref <- c(
  bibentry(
    bibtype = "Manual",
    title = "boot: Bootstrap R (S-PLUS) Functions",
    author = c(
      person("Angelo", "Canty", role = "aut",
               comment = "S original"),
      person(c("Brian", "D.")", "Ripley", role = c("aut", "trl", "cre"),
               comment = "R port, author of parallel support",
               email = "ripley@stats.ox.ac.uk")
    ),
  )
)
yml_replace

Replace, pluck, or discard top-level YAML fields

Description

`yml_replace()` replaces a named field with another value. As opposed to duplicating top-level fields with other functions, explicitly replacing them with `yml_replace()` will not raise a warning. `yml_discard()` removes values given either a character vector of names or a purrr-style lambda with a predicate (~ predicate); see the examples. `yml_pluck()` and `yml_chuck()` are wrappers around `purrr::pluck()` and `purrr::chuck()` that return yml objects.

Usage

```r
yml_replace(.yml, ...)

yml_discard(.yml, .rid)

yml_pluck(.yml, ...)

yml_chuck(.yml, ...)
```
Arguments

- `.yml` a `yml` object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function
- `...` additional named R objects, such as characters or lists, to transform into YAML
- `.rid` a character vector of fields to remove or a purrr-style lambda with a predicate (\(~\) predicate) where fields that are `TRUE` will be discarded

Value

A `yml` object

See Also

Other `yml`: `asis_yaml_output()`, `bib2yml()`, `draw_yml_tree()`, `has_field()`, `read_json()`, `use_yml_defaults()`, `use_yml_file()`, `use_yml()`, `yml_author()`, `yml_blogdown_opts()`, `yml_bookdown_opts()`, `yml_citations()`, `yml_clean()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_output()`, `yml_pagedown_opts()`, `yml_params()`, `yml_pkgdown()`, `yml_reference()`, `yml_resource_files()`, `yml_rsconnect_email()`, `yml_rticles_opts()`, `yml_runtime()`, `yml_site_opts()`, `yml_toc()`, `yml_vignette()`

Examples

```r
yml() %>%
  yml_clean(TRUE) %>%
  yml_replace(clean = FALSE) %>%
  yml_discard("author")

yml() %>%
  yml_output(
    pdf_document(),
    html_document()
  ) %>%
  yml_discard(~ length(x) > 1)
```

---

**yml_resource_files**  
*Add external resource files to R Markdown document*

**Description**

The `resource_files` field specifies a character vectors of paths to external resources to include in the output, e.g. files that are necessary for rendering. These files are handled with `rmarkdown::find_external_resources()`.

**Usage**

```r
yml_resource_files(.yml, resource_files)
```
**Arguments**

- `.yml` a `yml` object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function
- `resource_files` A path to a file, directory, or a wildcard pattern (such as "data/*.csv")

**Value**

a `yml` object

**See Also**

Other `yml`: `asis_yaml_output()`, `bib2yml()`, `draw_yml_tree()`, `has_field()`, `read_json()`, `use_yml_defaults()`, `use_yml_file()`, `use_yml()`, `yml_author()`, `yml_blogdown_opts()`, `yml_bookdown_opts()`, `yml_citations()`, `yml_clean()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_output()`, `yml_pagedown_opts()`, `yml_params()`, `ymlbgcolor()`, `yml_reference()`, `yml_replace()`, `yml_rsconnect_email()`, `yml_rtable_opts()`, `yml_runtime()`, `yml_site_opts()`, `yml_toc()`, `yml_vignette()`

**Examples**

```r
yml() %>%
  yml_resource_files(c("data/mydata.csv", "images/figure.png"))
```

---

### yml_rsconnect_email

**Set YAML for Scheduled Emails in RStudio Connect**

**Description**

RStudio Connect allows you to schedule emails to send using R Markdown. It uses a special type of YAML using the top-level field `rmd_output_metadata` that tells RStudio Connect about the email output. Several `rsc_*` fields exist to specify different components of the email, which can be set in the YAML header or programmatically using `rmarkdown::output_metadata()`. See the RStudio Connect documentation for more. `yml_output_metadata()` allows you to add any type of content to the `rmd_output_metadata` field.

**Usage**

```r
yml_rsconnect_email(
  .yml,
  rsc_email_subject = yml_blank(),
  rsc_email_body_html = yml_blank(),
  rsc_email_body_text = yml_blank(),
  rsc_email_images = yml_blank(),
  rsc_output_files = yml_blank(),
  rsc_email_attachments = yml_blank(),
  rsc_email_suppress_scheduled = yml_blank(),
  rsc_email_suppress_report_attachment = yml_blank(),
  resource_files = yml_blank(),
)```
...)

yml_output_metadata(.yml, ...)

Arguments

- .yml: a yml object created by yml(), as_yml(), or returned by a yml_*() function
- rsc_email_subject: The subject of the email. A report without an rsc_email_subject entry uses its published document name.
- rsc_email_body_html, rsc_email_body_text: The body of the email, either in plain text or HTML. A report with neither entry uses an automatically generated, plain-text body with a link to the report’s URL.
- rsc_email_images: Images to embed in the email. The embedded image must have a Content ID that is used in the body of the HTML and when providing the image to rsc_email_images, and the image itself must be base64-encoded, e.g. with the base64enc package.
- rsc_output_files: A vector of file names that should be available after the report has rendered. If you list a file that does not exist after rendering your report, Connect will log a message but continue trying to processing the other files listed. If the output files are not generated during the rendering of your report, then you will also need to list them in resource_files when you upload your report to Connect.
- rsc_email_attachments: A vector of file names that should be attached to the email.
- rsc_email_suppress_scheduled: Logical. Should the email schedule be suppressed? Default is FALSE.
- rsc_email_suppress_report_attachment: Logical. Should the rendered document be included as an attachment? Default is TRUE.
- resource_files: A file or files to host on RStudio Connect that is not generated by your report, e.g. an existing file.

Value

a yml object

See Also

Other yml: asis_yaml_output(), bib2yml(), draw_yml_tree(), has_field(), read_json(), use_yaml_defaults(), use_yaml_file(), use_yaml(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(), yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(), yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(), yml_rtables_opts(), yml_runtime(), yml_site_opts(), yml_toc(), yml_vignette()
Examples

```r
yml() %>%
  yml_rsconnect_email(
    rsc_email_subject = "Quarterly report",
    rsc_output_files = "data.csv",
    rsc_email_attachments = c("attachment_1.csv", "attachment_2.csv")
  )
```

---

**yml_rtilcles_opts**  
*Set YAML related to rtilcles output formats*

---

Description

The *rtilcles* package includes numerous output formats specific to academic journals. All of these can take YAML similar to `pdf_document()`. Additionally, two templates include custom YAML, `rticles::sage_article()` and `rticles::sim_article()`. See the help pages for these functions for more details and the sources of the LaTeX templates used for each.

Usage

```r
yml_rtilcles_opts(
  .yml,
  title = yml_blank(),
  runninghead = yml_blank(),
  author = yml_blank(),
  authormark = yml_blank(),
  address = yml_blank(),
  corrauth = yml_blank(),
  corres = yml_blank(),
  email = yml_blank(),
  abstract = yml_blank(),
  received = yml_blank(),
  revised = yml_blank(),
  accepted = yml_blank(),
  keywords = yml_blank(),
  bibliography = yml_blank(),
  longtable = yml_blank(),
  classoption = yml_blank(),
  header_includes = yml_blank(),
  include_after = yml_blank(),
  ...
)
```

```r
rticles_author(name = yml_blank(), num = yml_blank())
```

```r
rticles_address(name = yml_blank(), org = yml_blank())
```
rticles_corr_author(
    name = yml_blank(),
    author = yml_blank(),
    address = yml_blank()
)

Arguments

.yml
  a yml object created by yml(), as_yml(), or returned by a yml_*() function

title
  Title of the manuscript

runninghead
  A character vector, a short author list for the header (sage_article)

author
  A list of authors, containing name and num fields (sage_article, sim_article). Use rticles_author() or a list to specify.

authormark
  A character vector, the short author list for the header (sim_article)

address
  list containing num and org for defining author affiliations (sage_article, sim_article). Use rticles_address() or a list to specify.

corrauth
  corresponding author name and address (sage_article). Use rticles_corr_author() or a list to specify.

corres
  author and address for correspondence (sim_article). Use rticles_corr_author() or a list to specify.

email
  The email of the correspondence author (sage_article)

abstract
  The abstract, limited to 200 words (sage_article), 250 words (sim_article)

received, revised, accepted
  The dates of submission, revision, and acceptance of the manuscript (sim_article)

keywords
  The keywords for the article (sage_article), up to 6 keywords (sim_article)

bibliography
  BibTeX .bib file name (sage_article, sim_article)

longtable
  Logical. Include the longtable package? Used by default from pandoc to convert markdown to LaTeX code (sim_article)

classoption
  a character vector of classoption options for the sagej class (sage_article)

header_includes
  additional LaTeX code to include in the header, before the \begin\{document\} statement (sage_article, sim_article). Note that the actual YAML field is header-includes

include_after
  additional LaTeX code to include before the \end\{document\} statement (sage_article, sim_article). Note that the actual YAML field is include-after.

... additional named R objects, such as characters or lists, to transform into YAML

name
  The author’s name

num
  The author’s number or address number

org
  The author’s organization

Value

a yml object
yml_runtime

See Also

Other yml: asis_yaml_output(), bib2yml(), draw_yml_tree(), has_field(), read_json(), use_yml_defaults(), use_yml_file(), use_yml(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(), yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(), yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(), yml_rsconnect_email(), yml_runtime(), yml_site_opts(), yml_toc(), yml_vignette()

Examples

```r
yml() %>%
ymlarticles_opts(received = "09-12-2014")
```

---

**yml_runtime**  
*Activate Shiny in R Markdown*

Description

The runtime field lets you use Shiny in your R Markdown document, making it interactive. See the R Markdown book for examples.

Usage

```r
yml_runtime(.yml, runtime = c("static", "shiny", "shiny_prerendered"))
```

Arguments

- `.yml`  
a yml object created by yml(), as_yml(), or returned by a yml_*() function
- `runtime`  
The runtime target for rendering. `static`, the default, renders static documents; `shiny` allows you to include use Shiny in your document. `shiny_prerendered` is a subset of the shiny runtime that allows pre-rendering of app components (see the R Markdown site for more)

Value

- a yml object

See Also

Other yml: asis_yaml_output(), bib2yml(), draw_yml_tree(), has_field(), read_json(), use_yml_defaults(), use_yml_file(), use_yml(), yml_author(), yml_blogdown_opts(), yml_bookdown_opts(), yml_citations(), yml_clean(), yml_distill_opts(), yml_latex_opts(), yml_output(), yml_pagedown_opts(), yml_params(), yml_pkgdown(), yml_reference(), yml_replace(), yml_resource_files(), yml_rsconnect_email(), yml_articles_opts(), yml_site_opts(), yml_toc(), yml_vignette()

Other R Markdown: yml_clean(), yml_params(), yml_site_opts(), yml_vignette()

Other shiny: yml_params()
Examples

```r
yml() %>%
  yml_runtime("shiny")
```

### Description

R Markdown has a simple website builder baked in (see the R [Markdown book](https://dplyr.tidyverse.org/) for a detailed description). An R Markdown website must have at least have an `index.Rmd` file and a `_site.yml` file (which can be empty). Including YAML in `_site.yml` will apply it to all R Markdown files for the website, e.g. setting the output format here will tell R Markdown to use that format across the website. R Markdown websites also support navbars, which you can specify with YAML (see `yml_navbar()`, as well as `??rmarkdown::render_site` and `??rmarkdown::html_document`). Pass `navbar_page()` to the left or right field to set up page tabs and use `navbar_separator()` to include a separators. In addition to writing YAML with `yml_*()` functions, `use_site_yml()` will take the a `yml` object and write it to a `_site.yml` file for you.

### Usage

```r
yml_site_opts(
  .yml,
  name = yml_blank(),
  favicon = yml_blank(),
  output_dir = yml_blank(),
  include = yml_blank(),
  exclude = yml_blank(),
  new_session = yml_blank(),
  ...
)
```

```r
yml_navbar(
  .yml,
  title = yml_blank(),
  type = yml_blank(),
  left = yml_blank(),
  right = yml_blank(),
  ...
)
```

```r
navbar_page(
  text = yml_blank(),
  href = yml_blank(),
  icon = yml_blank(),
```
menu = yml_blank(),
...
)
navbar_separator()

Arguments

- **.yml** | a yml object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function
- **name** | The name of the website
- **favicon** | Path to a file to use as the favicon
- **output_dir** | Directory to copy site content into ("_site" is the default if none is specified)
- **include, exclude** | Files to include or exclude from the copied into `output_dir`. You can use `*` to indicate a wildcard selection, e.g. "*.csv".
- **new_session** | Logical. Should each website file be rendered in a new R session?
- **...** | additional named R objects, such as characters or lists, to transform into YAML
- **title** | The title of the website
- **type** | The color scheme for the navigation bar: either "default" or "inverse".
- **left, right** | the side of the navbar a `navbar_page()` should go (see example)
- **text** | The link text
- **href** | The link URL
- **icon** | An icon to include
- **menu** | drop-down menus specified by including another `navbar_page()`

Value

a yml object

See Also

`use_site_yml()` `use_navbar_yml()` `use_index_rmd()`

Other yml: `asis_yml_output()`, `bib2yml()`, `draw_yml_tree()`, `has_field()`, `read_json()`,
`use_yml_defaults()`, `use_yml_file()`, `use_yml()`, `yml_author()`, `yml_blogdown_opts()`, `yml_bookdown_opts()`,
`yml_citations()`, `yml_clean()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_output()`, `yml_pagedown_opts()`,
`yml_params()`, `yml_pkgdown()`, `yml_reference()`, `yml_replace()`, `yml_resource_files()`,
`yml_rsconnect_email()`, `yml_rmd_output()`, `yml_rmd_output()`, `yml_rmd_output()`, `yml_vignette()`

Other R Markdown: `yml_clean()`, `yml_params()`, `yml_runtime()`, `yml_vignette()`

Other websites: `yml_distill_opts()`, `yml_pkgdown()`
yml_toc

Specify Table of Contents options

Description

It’s generally better to specify Table of Contents in the output function you are using so you have a clearer idea of your options (e.g. `html_document(toc = TRUE, toc_float = TRUE)`). However, you can also generally specify at the top level of YAML.

Usage

```r
yml_toc(
  .yml,
  toc = yml_blank(),
  toc_depth = yml_blank(),
  toc_title = yml_blank(),
  ...
)
```

Arguments

- `.yml` a yml object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function
- `toc` Logical. Use a Table of Contents?
- `toc_depth` An integer. The depth of headers to use in the TOC. Note that the actual YAML field is `toc-depth`.
- `toc_title` The title of the TOC. Note that the actual YAML field is `toc-title`.
- `...` additional named R objects, such as characters or lists, to transform into YAML.

Examples

```r
yml_empty() %>%
  yml_site_opts(
    name = "my-website",
    output_dir = "_site",
    include = "demo.R",
    exclude = c("docs.txt", "*.csv")
  ) %>%
yml_navbar(
    title = "My Website",
    left = list(
      navbar_page("Home", href = "index.html"),
      navbar_page(navbar_separator(), href = "about.html")
    )
  ) %>%
yml_output(html_document(toc = TRUE, highlight = "textmate"))
```
**yml_verbatim**

Value

a yml object

See Also

Other yml: `asis_yaml_output()`, `bib2yml()`, `draw_yml_tree()`, `has_field()`, `read_json()`, `use_yaml_defaults()`, `use_yaml_file()`, `use_yml()`, `yml_author()`, `yml_blogdown_opts()`, `yml_bookdown_opts()`, `yml_citations()`, `yml_clean()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_output()`, `yml_pagedown_opts()`, `yml_params()`, `yml_pkgdwn()`, `yml_reference()`, `yml_replace()`, `yml_resource_files()`, `yml_rsconnect_email()`, `yml_rticles_opts()`, `yml_runtime()`, `yml_site_opts()`, `yml_vignette()`

Examples

```r
yml() %>%
  yml_toc(toc = TRUE, toc_depth = 1, toc_title = "Article Outline")
```

---

**Description**

`yml_verbatim()` is a helper function to write YAML precisely as given to the yml_*() function rather than the defaults in ymlthis and yaml. ymlthis uses the yaml package to check for valid syntax; yaml and ymlthis together make decisions about how to write syntax, which can often be done in numerous valid ways. See `yaml::as.yaml()` for more details.

**Usage**

```r
yml_verbatim(x)
```

**Arguments**

- `x`: a character vector

**Value**

an object of class `verbatim`

**Examples**

```r
# "yes" and "no" serve as alternatives to 'true' and 'false'. This writes
# "yes" literally.

yml_verbatim("yes")
```
Set up a package vignette

**Description**

To use an R Markdown file as a vignette, you need to specify an output format appropriate for inclusion in a package (for example, the lightweight `html_vignette()` output function included in `rmarkdown`) and to specify the `vignette` field, which specifies the title, engine, and encoding type of the vignette. See also `usethis::use_vignette()` for setting up a package vignette.

**Usage**

```r
yml_vignette(.yml, title, engine = "knitr::rmarkdown", encoding = "UTF-8")
```

**Arguments**

- `.yml`: a `yml` object created by `yml()`, `as_yml()`, or returned by a `yml_*()` function
- `title`: The title of the vignette
- `engine`: The rendering engine for the vignette ("knitr::rmarkdown" by default)
- `encoding`: The character encoding for the document ("UTF-8" by default).

**Value**

a `yml` object

**See Also**

Other `yml`: `asis_yaml_output()`, `bib2yml()`, `draw_yml_tree()`, `has_field()`, `read_json()`, `use_yml_defaults()`, `use_yml_file()`, `use_yml()`, `yml_author()`, `yml_blogdown_opts()`, `yml_bookdown_opts()`, `yml_citations()`, `yml_clean()`, `yml_distill_opts()`, `yml_latex_opts()`, `yml_output()`, `yml_pagedown_opts()`, `yml_params()`, `yml_pkgdown()`, `yml_reference()`, `yml_replace()`, `yml_resource_files()`, `yml_rsconnect_email()`, `yml_rslides_opts()`, `yml_runtime()`, `yml_site_opts()`, `yml_toc()`

**Examples**

```r
yml() %>%
  yml_output(html_vignette()) %>%
  yml_vignette("An introduction to R Markdown")
```
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