

Package ‘pkgdown’

March 25, 2020

Title Make Static HTML Documentation for a Package

Version 1.5.0

Description Generate an attractive and useful website from a source package.
'pkgdown' converts your documentation, vignettes, 'README', and more to
'HTML' making it easy to share information about your package online.

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URL <https://pkgdown.r-lib.org>, <https://github.com/r-lib/pkgdown>

BugReports <https://github.com/r-lib/pkgdown/issues>

Depends R (>= 3.1.0)

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as_pkgdown	<i>Generate pkgdown data structure</i>
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Description

You will generally not need to use this unless you need a custom site design and you're writing your own equivalent of `build_site()`.

Usage

```
as_pkgdown(pkg = ".", override = list())
```

Arguments

pkg	Path to package.
override	An optional named list used to temporarily override values in <code>_pkgdown.yml</code>

Description

The autolinker is built around two XPath expressions:

- `//pre[contains(@class, 'r')]`: this finds all `<div>`s with class `sourceCode` and `r`. The contents must be syntax-highlighted using `pygments`. (This is default in `rmarkdown::html_document()` when `theme = NULL`.)
- `//code[count(*) = 0]`: this finds all `<code>` that contain only text (and no other tags).

Usage

```
autolink_html(input, output = input, local_packages = character())
```

Arguments

`input`, `output` Input and output paths for HTML file

`local_packages` A named character vector providing relative paths (value) to packages (name) that can be reached with relative links from the target HTML document.

Details

Currently the following expressions are linked:

- Function calls, `foo()`
- Function calls qualified with the package name, `bar::foo()`
- Symbols qualified with the package name, `bar::baz`
- `library()`, `require()` and `requireNamespace()` calls.
- Help calls, `?foo`, `package?foo`, `?bar::foo`, `help(foo)`, `help(foo, package = bar)`, `help(package = bar)`.
- Vignette calls, `vignette(baz)`, `vignette(baz, package = "bar")`

Calls to `library()` and `require()` are used to find the topics connected to unqualified references.

Examples

```
## Not run:
autolink_html("path/to/file.html",
  local_packages = c(
    shiny = "shiny",
    shinydashboard = "shinydashboard"
  )
)
## End(Not run)
```

 build_articles

Build articles section

Description

`build_articles()` renders each R Markdown file underneath `vignettes/` and saves it to `articles/`. There are two exceptions:

- Files that start with `_` (e.g., `_index.Rmd`) are ignored, enabling the use of child documents in [bookdown](#)
- Files in `vignettes/tutorials` are handled by `build_tutorials()`

Vignettes are rendered using a special document format that reconciles `rmarkdown::html_document()` with the `pkgdown` template. This means articles behave slightly differently to vignettes, particularly with respect to external files, and custom output formats. See below for more details.

Note that when you run `build_articles()` directly (outside of `build_site()`) vignettes will use the currently installed version of the package, not the current source version. This makes iteration quicker when you are primarily working on the text of an article.

Usage

```
build_articles(
  pkg = ".",
  quiet = TRUE,
  lazy = TRUE,
  override = list(),
  preview = NA
)
```

```
build_article(name, pkg = ".", data = list(), lazy = FALSE, quiet = TRUE)
```

Arguments

<code>pkg</code>	Path to package.
<code>quiet</code>	Set to <code>FALSE</code> to display output of <code>knitr</code> and <code>pandoc</code> . This is useful when debugging.
<code>lazy</code>	If <code>TRUE</code> , will only re-build article if input file has been modified more recently than the output file.
<code>override</code>	An optional named list used to temporarily override values in <code>_pkgdown.yml</code>
<code>preview</code>	If <code>TRUE</code> , or <code>is.na(preview) && interactive()</code> , will preview freshly generated section in browser.
<code>name</code>	Name of article to render. This should be either a path relative to <code>vignettes/</code> without extension, or <code>index</code> or <code>README</code> .
<code>data</code>	Additional data to pass on to template.

Index and navbar

You can control the articles index and navbar with a `articles` section in your `_pkgdown.yml`. It defines a list of sections, each of which can contain four fields:

- `title` (required): title of section, which appears as a heading on the articles index.
- `desc` (optional): An optional markdown description displayed underneath the section title.
- `navbar` (optional): A couple of words used to label this section in the navbar. If omitted, this section of vignettes will not appear in the navbar.
- `contents` (required): a list of article names to include in the section. This can either be names of individual vignettes or a call to `starts_with()`. The name of a vignette includes its path under vignettes without extension so that the name of the vignette found at `vignettes/pizza/slice.Rmd` is `pizza/slice`.

The title and description of individual vignettes displayed on the index comes from `title` and `description` fields of the YAML header in the Rmds.

For example, this yaml might be used for some version of `dplyr`:

```
articles:
- title: Main verbs
  navbar: ~
  contents:
  - one-table
  - two-table
  - rowwise
  - colwise

- title: Developer
  desc: Vignettes aimed at package developers
  contents:
  - programming
  - packages
```

Note the use of the `navbar` fields. `navbar: ~` means that the "Main verbs" will appear in the navbar without a heading; the absence of the `navbar` field in the for the developer vignettes means that they will only be accessible via the articles index.

Special links:

- A vignette with the same name as the package (e.g., `vignettes/pkgdown.Rmd` or `vignettes/articles/pkgdown.Rmd`) automatically becomes a top-level "Get started" link, and will not appear in the articles drop-down. (If your package name include a `.`, e.g. `pack.down`, use a `-` in the vignette name, e.g. `pack.down.Rmd`.)
- The navbar will include a link to the articles index if one or more vignettes are not available through the navbar. If some vignettes appear in the navbar drop-down list and others do not, the list will automatically include a "More ..." link at the bottom; if no vignettes appear in the navbar, it will link directly to the articles index instead of providing a drop-down.

External files

pkgdown differs from base R in its handling of external files. When building vignettes, R assumes that vignettes are self-contained (a reasonable assumption when most vignettes were PDFs) and only copies files explicitly listed in `.install_extras`. pkgdown takes a different approach based on `rmarkdown::find_external_resources()`, and it will also copy any images that you link to. If for some reason the automatic detection doesn't work, you will need to add a `resource_files` field to the yaml metadata, e.g.:

```
---
title: My Document
resource_files:
  - data/mydata.csv
  - images/figure.png
---
```

Note that you can not use the `fig.path` to change the output directory of generated figures as its default value is a strong assumption of rmarkdown.

Embedding Shiny apps

If you would like to embed a Shiny app into an article, the app will have to be hosted independently, (e.g. <https://www.shinyapps.io>). Then, you can embed the app into your article using an `<iframe>`, e.g. `<iframe src = "https://gallery.shinyapps.io/083-front-page" class="shiny-app">`.

See <https://github.com/r-lib/pkgdown/issues/838#issuecomment-430473856> for some hints on how to customise the appearance with CSS.

YAML header

By default, pkgdown builds all articles with `rmarkdown::html_document()` by setting the `template` parameter. This overrides any custom settings you have in your YAML metadata, ensuring that all articles are rendered in the same way (and receive the default site template).

If you need to override the output format, or set any options, you'll need to add a `pkgdown` field to your yaml metadata:

```
pkgdown:
  as_is: true
```

This will tell pkgdown to use the `output_format` (and options) that you have specified. This format must accept `template`, `theme`, and `self_contained` in order to work with pkgdown.

If the output format produces a PDF, you'll also need to specify the `extension` field:

```
pkgdown:
  as_is: true
  extension: pdf
```

Suppressing vignettes

If you want articles that are not vignettes, either put them in subdirectories or list in `.Rbuildignore`. An articles link will be automatically added to the default navbar if the vignettes directory is present: if you do not want this, you will need to customise the navbar. See [build_site\(\)](#) details.

Tables of contents

You can control the TOC depth via the YAML configuration file:

```
toc:
  depth: 2
```

Figures

You can control the default rendering of figures by specifying the `figures` field in `_pkgdown.yml`. The default settings are equivalent to:

```
figures:
  dev: grDevices::png
  dpi: 96
  dev.args: []
  fig.ext: png
  fig.width: 7.2916667
  fig.height: ~
  fig.retina: 2
  fig.asp: 1.618
```

build_favicons	<i>Create favicons from package logo</i>
----------------	--

Description

This function auto-detects the location of your package logo (with the name `logo.svg` (recommended format) or `logo.png`) and runs it through the <https://realfavicongenerator.net> API to build a complete set of favicons with different sizes, as needed for modern web usage.

Usage

```
build_favicons(pkg = ".", overwrite = FALSE)
```

```
build_favicon(pkg, overwrite)
```

Arguments

<code>pkg</code>	Path to package.
<code>overwrite</code>	If TRUE, re-create favicons from package logo.

Details

You only need to run the function once. The favicon set will be stored in `pkgdown/favicon` and copied by `init_site()` to the relevant location when the website is rebuilt.

Once complete, you should add `pkgdown/` to `.Rbuildignore` to avoid a NOTE during package checking.

 build_home

Build home section

Description

This function generates the home page, converts `.md` files found in the package root (and in `.github/`), and builds an authors page from `DESCRIPTION` and `inst/CITATION` (if present).

Usage

```
build_home(pkg = ".", override = list(), preview = NA, quiet = TRUE)
```

Arguments

<code>pkg</code>	Path to package.
<code>override</code>	An optional named list used to temporarily override values in <code>_pkgdown.yml</code>
<code>preview</code>	If <code>TRUE</code> , or <code>is.na(preview) && interactive()</code> , will preview freshly generated section in browser.
<code>quiet</code>	Set to <code>FALSE</code> to display output of knitr and pandoc. This is useful when debugging.

Home page

The home page (`index.html`) is generated from `_pkgdown/index.md`, `index.md`, or `README.md`, in that order. Most packages will use `README.md` because that's also displayed by GitHub and CRAN. Use `index.md` if you want your package website to look different to your `README`, and use `_pkgdown/index.md` if you don't want that file to live in your package root directory.

If you use `index.Rmd` or `README.Rmd` it's your responsibility to knit the document to create the corresponding `.md`. `pkgdown` does not do this for you because it only touches files in the `doc/` directory.

Sidebar

The sidebar is automatically populated with:

- Development status badges found in `README.md/index.md`. `pkgdown` identifies badges in three ways:
 - Any image-containing links between `<!-- badges: start -->` and `<!-- badges: end -->`, as e.g. created by `usethis::use_readme_md()` or `usethis::use_readme_rmd()`.
 - Any image-containing links within `<div id="badges"></div>`.
 - Within the first paragraph, if it only contains image-containing links.
- A link for bug reports is added if the `BugReports` field in `DESCRIPTION` contains a link. You can use `usethis::use_github_links()` to populate this field.
- Licensing information if `LICENSE/LICENCE` or `LICENSE.md/LICENCE.md` files are present.

- Community information is linked in the side bar using the `.github/CONTRIBUTING.md` and `.github/CODE_OF_CONDUCT.md` files, if present.
- Extra markdown files in the base directory or in `.github/` are copied to `docs/` and converted to HTML.
- Citation information from a `inst/CITATION` file is linked in the side bar to the [authors page](#).
- Author ORCID identification numbers in the DESCRIPTION are linked under "Developers" using the ORCID logo:

```
Authors@R: c(
  person("Hadley", "Wickham", , "hadley@rstudio.com", role = c("aut", "cre"),
    comment = c(ORCID = "0000-0003-4757-117X")
  ),
  person("Jay", "Hesselberth", role = "aut",
    comment = c(ORCID = "0000-0002-6299-179X")
  )
)
```

Images and figures

If you want to include images in your README.md, they must be stored somewhere in the package so that they can be displayed on the CRAN website. The best place to put them is `man/figures`. If you are generating figures with R Markdown, make sure you set up `fig.path` as followed:

```
```{r, include = FALSE}
knitr::opts_chunk$set(
 fig.path = "man/figures/"
)
```
```

Package logo

If you have a package logo, you can include it at the top of your README in a level-one heading:

```
# pkgdown 
```

`init_site()` will also automatically create a favicon set from your package logo.

YAML config - home

To tweak the home page, you need a section called `home`.

By default, the page title and description are extracted automatically from the `Title` and `Description` fields in `DESCRIPTION` (stripping single quotes off quoted words). CRAN ensures that these fields don't contain phrases like "R package" because that's obvious on CRAN. To make your package more findable with google, it's good practice to override the title and description, thinking about what people might search for:

```
home:
  title: An R package for pool-noodle discovery
```

```
description: >
  Do you love R? Do you love pool-noodles? If so, you might enjoy
  using this package to automatically discover and add pool-noodles
  to your growing collection.
```

(Note the use of YAML's >; this is a convenient way of writing paragraphs of text.)

The sidebar links are automatically generated by inspecting the URL and BugReports fields of the DESCRIPTION. You can add additional links with a subsection called links, which should contain a list of text + href elements:

```
home:
  links:
  - text: Link text
    href: http://website.com
```

READMEs usually start with an <h1> containing the package name. If that feels duplicative with the package name in the navbar you can remove it with strip_header: true:

```
home:
  strip_header: true
```

YAML config - authors

The "developers" list is populated by the maintainer ("cre"), authors ("aut"), and funder ("fnd") from the DESCRIPTION. You can modify their display on the home page by adding a subsection for authors. The author name should match the value in DESCRIPTION:

```
authors:
  name:
    href: "http://name-website.com"
    html: "<img src='name-picture.png' height=24>"
```

build_news

Build news section

Description

Your NEWS.md is parsed in to sections based on your use of headings.

Usage

```
build_news(pkg = ".", override = list(), preview = NA)
```

Arguments

| | |
|----------|---|
| pkg | Path to package. |
| override | An optional named list used to temporarily override values in _pkgdown.yml |
| preview | If TRUE, or is.na(preview) && interactive(), will preview freshly generated section in browser. |

Details

The NEWS.md file should be formatted with level one headings (#) containing the package name and version number, level two headings (##) with topic headings and lists of news bullets. Commonly used level two headings include 'Major changes', 'Bug fixes', or 'Minor changes'.

```
# pkgdown 0.1.0.9000
```

```
## Major changes
```

```
- Fresh approach based on the staticdocs package. Site configuration now based on YAML files.
```

If the package is available on CRAN, release dates will be added to versions in level-one headings, and "Unreleased" will be added versions that are not on CRAN.

Issues and contributors mentioned in news items are automatically linked to github if a URL entry linking to github.com is provided in the package DESCRIPTION.

```
## Major changes
```

```
- Lots of bug fixes (@hadley, #100)
```

YAML config

To automatically link to release announcements, include a releases section.

```
news:
  releases:
    - text: "usethis 1.3.0"
      href: https://www.tidyverse.org/articles/2018/02/usethis-1-3-0/
    - text: "usethis 1.0.0 (and 1.1.0)"
      href: https://www.tidyverse.org/articles/2017/11/usethis-1.0.0/
```

Control whether news is present on one page or multiple pages with the one_page field. The default is true.

```
news:
  one_page: false
```

Suppress the default addition of CRAN release dates with:

```
news:
  cran_dates: false
```

See Also

[Tidyverse style for News](#)

build_reference *Build reference section*

Description

By default, pkgdown will generate an index that lists all functions in alphabetical order. To override this, provide a reference section in your `_pkgdown.yml` as described below.

Usage

```
build_reference(
  pkg = ".",
  lazy = TRUE,
  examples = TRUE,
  run_dont_run = FALSE,
  seed = 1014,
  override = list(),
  preview = NA,
  devel = TRUE,
  document = "DEPRECATED",
  topics = NULL
)

build_reference_index(pkg = ".")
```

Arguments

| | |
|--------------|---|
| pkg | Path to package. |
| lazy | If TRUE, only rebuild pages where the <code>.Rd</code> is more recent than the <code>.html</code> . This makes it much easier to rapidly prototype. It is set to FALSE by <code>build_site()</code> . |
| examples | Run examples? |
| run_dont_run | Run examples that are surrounded in <code>\dontrun</code> ? |
| seed | Seed used to initialize so that random examples are reproducible. |
| override | An optional named list used to temporarily override values in <code>_pkgdown.yml</code> |
| preview | If TRUE, or <code>is.na(preview) && interactive()</code> , will preview freshly generated section in browser. |
| devel | Determines how code is loaded in order to run examples. If TRUE (the default), assumes you are in a live development environment, and loads source package with <code>pkgload::load_all()</code> . If FALSE, uses the installed version of the package. |
| document | Deprecated Use <code>devel</code> instead. |
| topics | Build only specified topics. If supplied, sets <code>lazy</code> and <code>preview</code> to FALSE. |

Reference index

To tweak the index page, add a section called `reference` to `_pkgdown.yml`. It can contain three different types of element:

- A **title** (`title + desc`), which generates an row containing an `<h2>` with optional paragraph description.
- A **subtitle** (`subtitle + desc`), which generates an row containing an `<h3>` with optional paragraph description.
- A **list of topics** (`contents`), which generates one row for each topic, with a list of aliases for the topic on the left, and the topic title on the right.

(For historical reasons you can include `contents` with a title or subtitle, but this is no longer recommended).

Most packages will only need to use `title` and `contents` components. For example, here's a snippet from the YAML that `pkgdown` uses to generate its own reference index:

```
reference:
- title: Build
  desc: Build a complete site or its individual section components.
- contents:
  - starts_with("build_")
- title: Templates
- contents:
  - template_navbar
  - render_page
```

Bigger packages, e.g. `ggplot2`, may need an additional layer of structure in order to clearly organise large number of functions:

```
reference:
- title: Layers
- subtitle: Geoms
  desc: Geom is short for geometric element
- contents:
  - starts_with("geom")
- subtitle: Stats
  desc: Statistical transformations transform data before display.
  contents:
  - starts_with("stat")
```

`desc` can use markdown, and if you have a long description it's a good idea to take advantage of the `YAML >` notation:

```
desc: >
  This is a very _long_ and overly flowery description of a
  single simple function. By using `>`, it's easy to write a description
  that runs over multiple lines.
```

Topic matching:

contents can contain:

- Individual function/topic names.
- Weirdly named functions with doubled quoting, once for YAML and once for R, e.g. "`+.gg`".
- `starts_with("prefix")` to select all functions with common prefix.
- `ends_with("suffix")` to select all functions with common suffix.
- `matches("regexp")` for more complex regular expressions.
- `has_keyword("x")` to select all topics with keyword "x"; `has_keyword("datasets")` selects all data documentation.
- `has_concept("blah")` to select all topics with concept "blah".
- `lacks_concepts(c("concept1", "concept2"))` to select all topics without those concepts. This is useful to capture topics not otherwise captured by `has_concepts()`.

All functions (except for `has_keywords()`) automatically exclude internal topics (i.e. those with `keyword{internal}`). You can choose to include with (e.g.) `starts_with("build_", internal = TRUE)`.

Use a leading `-` to remove topics from a section, e.g. `-topic_name`, `-starts_with("foo")`.

`pkgdown` will check that all non-internal topics are included on the reference index page, and will generate a warning if you have missed any.

Icons:

You can optionally supply an icon for each help topic. To do so, you'll need a top-level icons directory. This should contain `.png` files that are either 30x30 (for regular display) or 60x60 (if you want retina display). Icons are matched to topics by aliases.

Figures

You can control the default rendering of figures by specifying the `figures` field in `_pkgdown.yml`. The default settings are equivalent to:

```
figures:
  dev: grDevices::png
  dpi: 96
  dev.args: []
  fig.ext: png
  fig.width: 7.2916667
  fig.height: ~
  fig.retina: 2
  fig.asp: 1.618
```

Description

`build_site()` is a convenient wrapper around six functions:

- `init_site()`
- `build_home()`
- `build_reference()`
- `build_articles()`
- `build_tutorials()`
- `build_news()`

See the documentation for the each function to learn how to control that aspect of the site.

Note if names of generated files were changed, you will need to use `clean_site()` first to clean up orphan files.

Usage

```
build_site(
  pkg = ".",
  examples = TRUE,
  run_dont_run = FALSE,
  seed = 1014,
  lazy = FALSE,
  override = list(),
  preview = NA,
  devel = FALSE,
  new_process = !devel,
  install = !devel,
  document = "DEPRECATED"
)
```

Arguments

| | |
|---------------------------|--|
| <code>pkg</code> | Path to package. |
| <code>examples</code> | Run examples? |
| <code>run_dont_run</code> | Run examples that are surrounded in <code>\dontrun</code> ? |
| <code>seed</code> | Seed used to initialize so that random examples are reproducible. |
| <code>lazy</code> | If TRUE, will only rebuild articles and reference pages if the source is newer than the destination. |
| <code>override</code> | An optional named list used to temporarily override values in <code>_pkgdown.yml</code> |
| <code>preview</code> | If TRUE, or <code>is.na(preview) && interactive()</code> , will preview freshly generated section in browser. |
| <code>devel</code> | Use development or deployment process?
If TRUE, uses lighter-weight process suitable for rapid iteration; it will run examples and vignettes in the current process, and will load code with <code>pkgload::load_all()</code> . |

| | |
|-------------|---|
| | If FALSE, will first install the package to a temporary library, and will run all examples and vignettes in a new process.
build_site() defaults to devel = FALSE so that you get high fidelity outputs when you building the complete site; build_reference(), build_home() and friends default to devel = TRUE so that you can rapidly iterate during development. |
| new_process | If TRUE, will run build_site() in a separate process. This enhances reproducibility by ensuring nothing that you have loaded in the current process affects the build process. |
| install | If TRUE, will install the package in a temporary library so it is available for vignettes. |
| document | Deprecated Use devel instead. |

YAML config

There are four top-level YAML settings that affect the entire site: destination, url, title, template, and navbar.

destination controls where the site will be generated. It defaults to docs/ (for GitHub pages), but you can override if desired. Relative paths will be taken relative to the package root.

url optionally specifies the url where the site will be published. Supplying this will:

- Allow other pkgdown sites to link to your site when needed, rather than using generic links to <https://rdr.io>.
- Generate a sitemap.xml, increasing the searchability of your site.
- Automatically generate a CNAME when [deploying to github](#).

url: `http://pkgdown.r-lib.org`

title overrides the default site title, which is the package name. It's used in the page title and default navbar.

You can also provided information to override the default display of the authors. Provided a list named with the name of each author, including href to add a link, or html to override the text:

```
authors:
  Hadley Wickham:
    href: http://hadley.nz
  RStudio:
    href: https://www.rstudio.com
    html: 
```

Development mode

The development mode of a site controls four main things:

- Where the site is built.
- The colour of the package version in the navbar.

- The optional tooltip associated with the version.
- The indexing of the site by search engines.

There are currently three possible development modes:

- **release**: site written to docs/, the version gets the default colouring, and no message.
- **development**: written to docs/dev/, the version gets a danger label, and message stating these are docs for an in-development version of the package. The noindex meta tag is used to ensure that these packages are not indexed by search engines.
- **unreleased**: the package is written to docs/, the version gets a "danger" label, and the message indicates the package is not yet on CRAN.

The default development mode is "release". You can override it by adding a new development field to `_pkgdown.yml`, e.g.

```
development:
  mode: devel
```

You can also have pkgdown automatically detect the mode with:

```
development:
  mode: auto
```

The mode will be automatically determined based on the version number:

- 0.0.0.9000 (0.0.0.*): unreleased
- four version components: development
- everything else -> release

There are three other options that you can control:

```
development:
  destination: dev
  version_label: danger
  version_tooltip: "Custom message here"
```

`destination` allows you to override the default subdirectory used for the development site; it defaults to `dev/`. `version_label` allows you to override the style used for development (and unreleased) versions of the package. It defaults to "danger", but you can set to "default", "info", or "warning" instead. (The precise colours are determined by your bootstrap theme, but become progressively more eye catching as you go from default to danger). Finally, you can choose to override the default tooltip with `version_tooltip`.

YAML config - navbar

By default, the top navigation bar (the "navbar") will contain links to:

- The home page, with a "home" icon.
- "Get Started", if you have an article with the same name as the package (e.g., `vignettes/pkgdown.Rmd`).

- Reference
- Articles (i.e., vignettes, if present).
- News (if present).
- A "github" icon with a link to your github repo (if listed in the DESCRIPTION url field).

You can override these defaults with the navbar field. It has two primary components: structure and components. These components interact in a somewhat complicated way, but the complexity allows you to make minor tweaks to part of the navbar while relying on pkgdown to automatically generate the rest.

The structure defines the layout of the navbar, i.e. the order of the components, and whether they're right aligned or left aligned. You can use this component to change the order of the default components, and to add your own components.

```
navbar:
  structure:
    left: [home, intro, reference, articles, tutorials, news]
    right: [github]
```

The components describes the appearance of each element in the navbar. It uses the same syntax as **RMarkdown**. The following YAML snippet illustrates some of the most important features.

```
components:
  home: ~
  articles:
    text: Articles
    menu:
      - text: Category A
      - text: Title A1
        href: articles/a1.html
      - text: Title A2
        href: articles/a2.html
      - text: -----
      - text: "Category B"
      - text: Title B1
        menu:
          - text "Sub-category B11"
            href: articles/b11.html
  twitter:
    icon: "fab fa-twitter fa-lg"
    href: http://twitter.com/hadleywickham
```

Components can contain sub-menus with headings (indicated by missing href) and separators (indicated by a bunch of -). You can also use icons from **fontawesome**.

This yaml would override the default "articles" component, eliminate the "home" component, and add a new "twitter" component. Unless you explicitly mention new components in the structure they'll be added to the far right of the left menu.

YAML config - search

You can use [docsearch](#) by algolia to add search to your site.

```
template:
  params:
    docsearch:
      api_key: API_KEY
      index_name: INDEX_NAME
```

You also need to add a url: field, see above.

YAML config - template

You can get complete control over the appearance of the site using the `template` component. There are two components to the template: the HTML templates used to layout each page, and the css/js assets used to render the page in the browser.

The easiest way to tweak the default style is to use a bootswatch template, by passing on the bootswatch template parameter to the built-in template:

```
template:
  params:
    bootswatch: cerulean
```

See a complete list of themes and preview how they look at <https://gallery.shinyapps.io/117-shinythemes/>:

Optionally provide the `ganalytics` template parameter to enable [Google Analytics](#). It should correspond to your [tracking id](#).

When enabling Google Analytics, be aware of the type and amount of user information that you are collecting. You may wish to limit the extent of data collection or to add a privacy disclosure to your site, in keeping with current laws and regulations.

```
template:
  params:
    ganalytics: UA-000000-01
```

Suppress indexing of your pages by web robots by setting `noindex: true`:

```
template:
  params:
    noindex: true
```

You can also override the default templates and provide additional assets. You can do so by either storing in a package with directories `inst/pkgdown/assets` and `inst/pkgdown/templates`, or by supplying `path` and `asset_path`. To suppress inclusion of the default assets, set `default_assets` to `false`.

```
template:
  package: mycustompackage
```

OR:

```
template:
  path: path/to/templates
  assets: path/to/assets
  default_assets: false
```

These settings are currently recommended for advanced users only. There is little documentation, and you'll need to read the existing source for pkgdown templates to ensure that you use the correct components.

YAML config - repo

pkgdown automatically generates links to the source repository in a few places

- Articles and documentation topics are linked back to the underlying source file.
- The NEWS automatically links issue numbers and user names.
- The homepage provides a link to "Browse source code"

pkgdown automatically figures out the necessary URLs if you link to a GitHub or GitLab repo in your BugReports or URL field. Otherwise, you can supply your own in the repo component:

```
repo:
  url:
    home: https://github.com/r-lib/pkgdown/
    source: https://github.com/r-lib/pkgdown/blob/master/
    issue: https://github.com/r-lib/pkgdown/issues/
    user: https://github.com/
```

- home: path to package home on source code repository.
- source:: path to source of individual file in master branch.
- issue: path to individual issue.
- user: path to user.

The varying components (e.g. path, issue number, user name) are pasted on the end of these URLs so they should have trailing /s.

Options

Users with limited internet connectivity can disable CRAN checks by setting `options(pkgdown.internet = FALSE)`. This will also disable some features from pkgdown that requires an internet connectivity. However, if it is used to build docs for a package that requires internet connectivity in examples or vignettes, this connection is required as this option won't apply on them.

Users can set a timeout for `build_site(new_process = TRUE)` with `options(pkgdown.timeout = Inf)`, which is useful to prevent stalled builds from hanging in cron jobs.

Examples

```
## Not run:
build_site()

build_site(override = list(destination = tempdir()))

## End(Not run)
```

build_tutorials *Build tutorials section*

Description

learnr tutorials must be hosted elsewhere as they require an R execution engine. Currently, pkgdown will not build or publish tutorials for you, but makes it easy to embed (using `<iframe>`s) published tutorials. Tutorials are automatically discovered from published tutorials in `inst/tutorials` and `vignettes/tutorials`. Alternatively, you can list in `_pkgdown.yml` as described below.

Usage

```
build_tutorials(pkg = ".", override = list(), preview = NA)
```

Arguments

| | |
|----------|---|
| pkg | Path to package. |
| override | An optional named list used to temporarily override values in <code>_pkgdown.yml</code> |
| preview | If TRUE, or <code>is.na(preview) && interactive()</code> , will preview freshly generated section in browser. |

YAML config

To override the default discovery process, you can provide a `tutorials` section. This should be a list where each element specifies:

- `name`: used for the generated file name
- `title`: used in page heading and in navbar
- `url`: which will be embedded in an `iframe`
- `source`: optional, but if present will be linked to

```
tutorials:
- name: 00-setup
  title: Setting up R
  url: https://jjallaire.shinyapps.io/learnr-tutorial-00-setup/
- name: 01-data-basics
  title: Data basics
  url: https://jjallaire.shinyapps.io/learnr-tutorial-01-data-basics/
```

| | |
|------------|-------------------|
| clean_site | <i>Clean site</i> |
|------------|-------------------|

Description

Delete all files in docs/ (except for CNAME).

Usage

```
clean_site(pkg = ".")
```

Arguments

| | |
|-----|------------------|
| pkg | Path to package. |
|-----|------------------|

| | |
|--------------------|---|
| deploy_site_github | <i>Deploy a pkgdown site on Travis-CI to Github Pages</i> |
|--------------------|---|

Description

deploy_site_github() sets up your SSH keys for deployment, builds the site with [build_site\(\)](#), commits the site to the gh-pages branch and then pushes the results back to GitHub. deploy_site_github() is meant only to be used by the CI system on Travis, it should not be called locally. [deploy_to_branch\(\)](#) can be used to deploy a site directly to GitHub Pages locally. See 'Setup' for details on setting up your repository to use this.

Usage

```
deploy_site_github(
  pkg = ".",
  install = TRUE,
  tarball = Sys.getenv("PKG_TARBALL", ""),
  ssh_id = Sys.getenv("id_rsa", ""),
  commit_message = construct_commit_message(pkg),
  verbose = FALSE,
  ...,
  repo_slug = "DEPRECATED"
)
```

Arguments

| | |
|---------|---|
| pkg | Path to package. |
| install | Optionally, opt-out of automatic installation. This is necessary if the package you're documenting is a dependency of pkgdown |

| | |
|----------------|--|
| tarball | The location of the built package tarball. The default Travis configuration for R packages sets PKG_TARBALL to this path. |
| ssh_id | The private id to use, a base64 encoded content of the private pem file. This should <i>not</i> be your personal private key. Instead create a new keypair specifically for deploying the site. The easiest way is to use <code>travis::use_travis_deploy()</code> . |
| commit_message | The commit message to be used for the commit. |
| verbose | Print verbose output |
| ... | Additional arguments passed to <code>build_site()</code> . |
| repo_slug | Deprecated No longer used. |

Setup

For a quick setup, you can use `usethis::use_pkgdown_travis()`. It will help you with the following detailed steps.

- Add the following to your `.travis.yml` file.

```
before_cache: Rscript -e 'remotes::install_cran("pkgdown")'
deploy:
  provider: script
  script: Rscript -e 'pkgdown::deploy_site_github()'
  skip_cleanup: true
```

- Then you will need to setup your deployment keys. The easiest way is to call `travis::use_travis_deploy()`. This will generate and push the necessary keys to your GitHub and Travis accounts. See the [travis package website](#) for more details.
- Next, make sure that a `gh-pages` branch exists. The simplest way to do so is to run the following git commands locally:

```
git checkout --orphan gh-pages
git rm -rf .
git commit --allow-empty -m 'Initial gh-pages commit'
git push origin gh-pages
git checkout master
```

We recommend doing this outside of RStudio (with the project closed) as from RStudio's perspective you end up deleting all the files and then re-creating them.

- If you're using a custom CNAME, make sure you have set the `url` in `_pkgdown.yml`:

```
url: http://pkgdown.r-lib.org
```

| | |
|------------------|--|
| deploy_to_branch | <i>Build and deploy a site locally</i> |
|------------------|--|

Description

Assumes that you're in a git clone of the project, and the package is already installed.

Usage

```

deploy_to_branch(
  pkg = ".",
  commit_message = construct_commit_message(pkg),
  branch = "gh-pages",
  remote = "origin",
  github_pages = (branch == "gh-pages"),
  ...
)

```

Arguments

| | |
|----------------|--|
| pkg | Path to package. |
| commit_message | The commit message to be used for the commit. |
| branch | The git branch to deploy to |
| remote | The git remote to deploy to |
| github_pages | Is this a GitHub pages deploy. If TRUE, adds a CNAME file for custom domain name support, and a .nojekyll file to suppress jekyll rendering. |
| ... | Additional arguments passed to build_site() . |

| | |
|-----------|---------------------------------------|
| init_site | <i>Initialise site infrastructure</i> |
|-----------|---------------------------------------|

Description

This creates the output directory (docs/), a machine readable description of the site, and copies CSS/JS assets and extra files.

Usage

```
init_site(pkg = ".")
```

Arguments

| | |
|-----|------------------|
| pkg | Path to package. |
|-----|------------------|

Build-ignored files

We recommend using `usethis::use_pkgdown()` to build-ignore docs/ and _pkgdown.yml. If use another directory, or create the site manually, you'll need to add them to `.Rbuildignore` yourself. A NOTE about an unexpected file during R CMD CHECK is an indication you have not correctly ignored these files.

Custom CSS/JS

If you want to do minor customisation of your pkgdown site, the easiest way is to add `pkgdown/extra.css` and `pkgdown/extra.js`. These will be automatically copied to docs/ and inserted into the <HEAD> after the default pkgdown CSS and JS.

Favicon

Favicons are built automatically from a logo PNG or SVG by `init_site()` and copied to `pkgdown/favicon`.

404

pkgdown creates a default 404 page (`404.html`). You can customize 404 page content using `.github/404.md`.

in_pkgdown

Determine if code is executed by pkgdown

Description

This is occasionally useful when you need different behaviour by pkgdown and regular documentation.

Usage

```
in_pkgdown()
```

Examples

```
in_pkgdown()
```

| | |
|--------------|-----------------------------|
| preview_site | <i>Open site in browser</i> |
|--------------|-----------------------------|

Description

Open site in browser

Usage

```
preview_site(pkg = ".", path = ".", preview = NA)
```

Arguments

| | |
|---------|---|
| pkg | Path to package. |
| path | Path relative to destination |
| preview | If TRUE, or is.na(preview) && interactive(), will preview freshly generated section in browser. |

| | |
|---------|--|
| rd2html | <i>Translate an Rd string to its HTML output</i> |
|---------|--|

Description

Translate an Rd string to its HTML output

Usage

```
rd2html(x, fragment = TRUE, ...)
```

Arguments

| | |
|----------|---|
| x | Rd string. Backslashes must be double-escaped ("\\"). |
| fragment | logical indicating whether this represents a complete Rd file |
| ... | additional arguments for as_html |

Examples

```
rd2html("a\n%b\nc")
```

```
rd2html("a & b")
```

```
rd2html("\\strong{\\emph{x}}")
```

| | |
|-------------|----------------------------------|
| render_page | <i>Render page with template</i> |
|-------------|----------------------------------|

Description

Each page is composed of four templates: "head", "header", "content", and "footer". Each of these templates is rendered using the data, and then assembled into an overall page using the "layout" template.

Usage

```
render_page(pkg = ".", name, data, path = "", depth = NULL, quiet = FALSE)
```

```
data_template(pkg = ".", depth = 0L)
```

Arguments

| | |
|-------|---|
| pkg | Path to package to document. |
| name | Name of the template (e.g. "home", "vignette", "news") |
| data | Data for the template.
This is automatically supplemented with three lists: <ul style="list-style-type: none"> • site: title and path to root. • yaml: the template key from <code>_pkgdown.yml</code>. • package: package metadata including name and version. See the full contents by running <code>data_template()</code> . |
| path | Location to create file; relative to destination directory. If "" (the default), prints to standard out. |
| depth | Depth of path relative to base directory. |
| quiet | If quiet, will suppress output messages |

| | |
|-----------------|--------------------------------|
| template_navbar | <i>Generate YAML templates</i> |
|-----------------|--------------------------------|

Description

Use these function to generate the default YAML that pkgdown uses for the different parts of `_pkgdown.yml`. These are useful starting points if you want to customise your site.

Usage

```
template_navbar(path = ".")
```

```
template_reference(path = ".")
```

```
template_articles(path = ".")
```

Arguments

path Path to package root

Examples

```
## Not run:  
pkgdown::template_navbar()  
  
## End(Not run)  
  
## Not run:  
pkgdown::template_reference()  
  
## End(Not run)  
  
## Not run:  
pkgdown::template_articles()  
  
## End(Not run)
```

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