

# Package ‘pkgdown’

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**Title** Make Static HTML Documentation for a Package

**Version** 1.1.0

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

**License** MIT + file LICENSE

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

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

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---

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

---

### 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`
- Help calls, `?foo`, `package?foo`, and `?bar::foo`
- 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	<i>Build articles</i>
----------------	-----------------------

---

## Description

Each R Markdown vignette in `vignettes/` and its subdirectories is rendered and saved to `articles/`. Vignettes are rendered using a special document format that reconciles `rmarkdown::html_document()` with your `pkgdown` template.

## 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) &amp;&amp; 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.

## 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 `yml` 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 the default is a strong assumption of `rmarkdown`.

### YAML config

To tweak the index page, you need a section called `articles`, which provides a list of sections containing, a title, list of contents, and optional description.

For example, this imaginary file describes some of the structure of the **R markdown articles**:

```
articles:
- title: R Markdown
  contents:
  - starts_with("authoring")
- title: Websites
  contents:
  - rmarkdown_websites
  - rmarkdown_site_generators
```

Note that `contents` can contain either a list of vignette names (including subdirectories), or if the functions in a section share a common prefix or suffix, you can use `starts_with("prefix")` and `ends_with("suffix")` to select them all. If you don't care about position within the string, use `contains("word")`. For more complex naming schemes you can use an arbitrary regular expression with `matches("regexp")`.

`pkgdown` will check that all vignettes are included in the index this page, and will generate a warning if you have missed any.

### YAML header

By default, `pkgdown` builds all articles with `rmarkdown::html_document()` using setting the `template` parameter to a custom built template that matches the site template. You can override this with a `pkgdown` field in your `yml` metadata:

```
pkgdown:
  as_is: true
```

This will tell `pkgdown` to use the `output_format` 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
```

### Supressing 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.

## 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\_home

*Build home page*

---

## Description

First looks for `index.Rmd` or `README.Rmd`, then `index.md` or `README.md`. If none are found, falls back to the description field in `DESCRIPTION`.

## 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) &amp;&amp; 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.

## Images and figures

If you want to images in your `README.md`, they must be stored in somewhere in the package so that they can be displayed on the CRAN website. The best place to put them appears to be `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/"
)
```
```

**YAML config**

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

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
```

The "developers" list is populated by the maintainer ("cre"), authors ("aut"), and funder ("fnd").

You can remove the first heading with

```
home:
  strip_header: true
```

**Badges**

Status badges are displayed in the sidebar under the section "Dev status". This section is automatically populated if the first paragraph of the homepage consists solely of status badges as linked images.

---

build\_news

*Build news section*

---

**Description**

Your `NEWS.md` is parsed in to sections based on your use of headings. Each minor version (i.e. the combination of first and second components) gets on one page, with all patch versions (i.e. the third component) on a single page. News items for development versions (by convention those versions with a fourth component) are displayed on an "unreleased" page.

**Usage**

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

**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) &amp;&amp; interactive()</code> , will preview freshly generated section in browser. |

**Details**

The NEWS.md file should be formatted somewhat like this:

```
# pkgdown 0.1.0.9000
```

```
## Major changes
```

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

```
...
```

Commonly used subsection headers include 'Major changes', 'Bug fixes', 'Minor changes'.

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)
```

If the package is available on CRAN, release dates will be added for listed versions.

**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
```

---

build\_reference

*Build reference section*

---

**Description**

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



**Usage**

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

```
build_reference_index(pkg = ".")
```

**Arguments**

|              |  |
|--------------|--|
| pkg          | Path to package.   |
| lazy         | If TRUE, only rebuild pages where the .Rd is more recent than the .html. This makes it much easier to rapidly prototype. It is set to FALSE by <code>build_site()</code> . |
| document     | If TRUE, will run <code>devtools::document()</code> before updating the site.  |
| examples     | Run examples?  |
| run_dont_run | Run examples that are surrounded in <code>\dontrun</code> ?  |
| mathjax      | Use mathjax to render math symbols?  |
| 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) &amp;&amp; interactive()</code> , will preview freshly generated section in browser.  |

**YAML config**

To tweak the index page, you need a section called `reference` which provides a list of sections containing, a title, list of contents, and optional description.

For example, the following code breaks up the functions in `pkgdown` into two groups:

```
reference:
- title: Render components
  desc: Build each component of the site.
  contents:
  - starts_with("build_")
  - init_site
- title: Templates
  contents:
  - render_page
```

Note that contents can contain either a list of function names, or if the functions in a section share a common prefix or suffix, you can use `starts_with("prefix")` and `ends_with("suffix")` to select them all. For more complex naming schemes you can use an arbitrary regular expression with `matches("regexp")`. You can also use a leading `-` to exclude matches from a section. By default, these functions that match multiple topics will exclude topics with keyword "internal". To include, use (e.g.) `starts_with("build_", internal = TRUE)`.

Alternatively, you can select topics that contain specified concepts with `has_concept("blah")`. Concepts are not currently well-supported by `roxygen2`, but may be useful if you write Rd files by hand.

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

## 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
```

## 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.

## Examples

```
# This example illustrates some important output types
# The following output should be wrapped over multiple lines
a <- 1:100
a

cat("This some text!\n")
message("This is a message!")
warning("This is a warning!")

# This is a multi-line block
{
  1 + 2
  2 + 2
}

## Not run:
stop("This is an error!", call. = FALSE)

## End(Not run)

# This code won't generally be run by CRAN. But it
# will be run by pkgdown
b <- 10
a + b
```

**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, document = TRUE,
  run_dont_run = FALSE, seed = 1014, mathjax = TRUE, lazy = FALSE,
  override = list(), preview = NA, new_process = TRUE)
```

**Arguments**

|                           |   |
|---------------------------|---|
| <code>pkg</code>          | Path to package.  |
| <code>examples</code>     | Run examples?   |
| <code>document</code>     | If TRUE, will run <code>devtools::document()</code> before updating the site.   |
| <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>mathjax</code>      | Use mathjax to render math symbols?   |
| <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) &amp;&amp; interactive()</code> , will preview freshly generated section in browser.   |
| <code>new_process</code>  | If TRUE, will run <code>build_site()</code> in a separate process. This enhances reproducibility by ensuring nothing that you have loaded in the current process affects the build process. |

## 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. If you supply this, other pkgdown sites will link to your site when needed, rather than using generic links to [rdocumentation.org](https://rdocumentation.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 provide information to override the default display of the authors. Provide 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: development
```

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: 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

`navbar` controls the navbar at the top of the page. 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
  href: articles/b1.html
twitter:
  icon: fa-lg fa-twitter
  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 use icons from fontawesome: see a full list <http://fontawesome.io/icons/>.

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 to `_pkgdown.yml` that specifies the location of your documentation on the web. For pkgdown, the URL field is:

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

See `vignette("pkgdown")` for details.

### 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](#).

```
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.

## Examples

```
## Not run:
build_site()

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

## End(Not run)
```

---

build\_tutorials

*Build tutorials*

---

## 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) &amp;&amp; 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

*Clean site*

---

**Description**

Deletes all files in `doc/` (except for `CNAME`)

**Usage**

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

**Arguments**

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



---

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

---

### Description

This creates the output directory, creates `favicon.ico` from package logo, creates a machine readable description of the site, and sets up assets and extra files.

### Usage

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

### Arguments

pkg            Path to package.

### 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 JSS.

### Favicon

If you include your package logo in the standard location of `man/figures/logo.png`, a favicon will be automatically created for you.

---

|            |   |
|------------|---|
| in_pkgdown | <i>Determine if code is executed by pkgdown</i> |
|------------|---|

---

### Description

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

### Usage

```
in_pkgdown()
```

### Examples

```
in_pkgdown()
```

---

```
preview_site          Open site in browser
```

---

**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. |

---

```
render_page          Render page with template
```

---

**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.<br>This is automatically supplemented with three lists: <ul style="list-style-type: none"> <li>• site: title and path to root.</li> <li>• yaml: the template key from _pkgdown.yml.</li> <li>• package: package metadata including name and version.</li> </ul> |

|       |  |
|-------|--|
|       | 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`. This 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 |
|------|----------------------|

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