Package: quartodown (via r-universe)

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Title Package Websites Built Entirely with 'Quarto'

Version 0.1.0.9000

Description Builds package websites with 'Quarto'. The whole site, help pages and vignettes included, is rendered by 'Quarto', so every 'Quarto' feature works, from callouts to code annotations. Functions mentioned in code link to their help pages, with hover tooltips.

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URL https://bjarkehautop.github.io/quartodown/, https://github.com/bjarkehautop/quartodown

BugReports https://github.com/bjarkehautop/quartodown/issues

SystemRequirements Quarto command line tool (<https://github.com/quarto-dev/quarto-cli>).

Encoding UTF-8

Roxygen list(markdown = TRUE)

Depends R (>= 4.0.0)

Imports cli, desc, fansi, fs, processx, quarto, tools, utils, xml2, yaml

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VignetteBuilder quarto

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`build_site` *Build the package website*

Description

Builds the package website into `docs/` with Quarto.

Usage

```
build_site(
  path = ".",
  tooltips = TRUE,
  freeze = FALSE,
  quiet = TRUE,
  devel = FALSE,
  workers = 1,
  preview = interactive()
)
```

Arguments

`path`	Path to the package root.
`tooltips`	Logical. Give references to the package's own functions (in code blocks and inline code) a hover tooltip showing the function's usage and title?
`freeze`	Logical. Reuse the results of code that ran in an earlier build, for pages whose source hasn't changed since? Uses Quarto's freeze, which keeps them in `_quarto/_freeze/`. Changes to the package's code or its dependencies aren't detected; delete `_quarto/_freeze/` to rerun everything.
`quiet`	Logical. Hide Quarto's rendering output? If a page fails to render, its error is shown either way.
`devel`	Logical. By default, the examples and vignettes run against the package installed from `path` into a temporary library. With `devel = TRUE`, they run against it loaded with `pkgload::load_all()` instead, which is faster, but code that starts other R processes (e.g. with callr or parallel workers) won't find the package there.
`workers`	Number of processes to build the site with. More than 1 needs the mirai package.
`preview`	Logical. Open the built site in a web browser with `preview_site()`? By default, only in interactive sessions.

Details

The site is built in a scratch folder, `_quarto/_site/`, and replaces the one in `docs/` only once it is complete. So the previous site stays there, and viewable with `preview_site()`, while the build runs and if it fails.

`build_site()` assembles a Quarto website project in `_quarto/` from the package sources and `_quartodown/_quartodown.yml`, then renders it. It uses `README.md` (or, without one, `DESCRIPTION`), `man/`, the vignettes (including those in subfolders), `NEWS.md`, `LICENSE/LICENSE.md`, and `CODE_OF_CONDUCT.md`, `CONTRIBUTING.md` and `SUPPORT.md` (at the top level or in `.github/`). See `vignette("quartodown")` for what the site contains.

While it builds, the environment variable `IN_QUARTODOWN` is `"true"`, so the package's examples and vignettes can check `identical(Sys.getenv("IN_QUARTODOWN"), "true")`. `IN_QUARTODOWN_PKG` is the name of the package whose site it is, which code shared between packages can check.

Value

Invisibly, the path to the built site.

Configuration

`_quartodown/_quartodown.yml` is optional; `use_quartodown()` creates one. It can contain:

- `url`: the site's address. It defaults to the first `URL` in `DESCRIPTION` that isn't a source repository.
- `reference`: the sections of the function reference index and the topics each lists, by name or with selectors such as `starts_with()`. The format is based on pkgdown's.
- `navbar`: the items on the navbar's `left` and `right`: keywords such as `reference` and `articles`, vignettes, and Quarto navbar items and menus; and the icons in its `tools`, by default `repo`. With `style: sidebar`, the `left` items go in a sidebar instead, with a link to every reference page.
- `home`: `file`, the `.md` or `.qmd` file the home page shows instead of `README.md`; `sidebar`, the sidebar's `structure` (its sections, in order) and `components` (sections of your own), or `false` to show the page as written, without it; and `links`, added to the sidebar's links.
- `authors`: by a person's name, an `href` to link it and `html` to replace it; and under `sidebar` and `footer`, the `roles` shown, with `before`/`after` text in the sidebar and `text` in the footer.
- `repo`: the repository's `urls` (`home`, and the prefixes of links to a file, `source`; an issue, `issue`; and a user, `user`) and `branch`. They default to those of DESCRIPTION's GitHub, GitLab or Codeberg `URL`.
- `theme`: the `light` and `dark` themes: names of Quarto's built-in themes, such as `flatly` and `darkly`, or `.scss` files in `_quartodown/`. By default, `default` and a dark version of it.
- `redirects`: pairs of paths, from an old page to the one replacing it, such as `["reference/old.html", "reference/ne`
- `development`: `mode`, `release` (the default) to build the site into `docs/`, or `devel` to build a site for the development version into `docs/dev/`, next to the released version's; `unreleased` marks the version as unreleased, and `auto` picks from the version number and whether the package is on CRAN. The environment variable `QUARTODOWN_DEV_MODE` overrides it. The format is based on pkgdown's. Content in `.quartodown-devel` or `.quartodown-release` shows on only that site.

- `vignettes`: `files`, files and folders outside `vignettes/` that the vignettes use by a relative path, such as `man/rmd/` for a child document `../man/rmd/shared.Rmd`, copied with them.
- `logo`: `false` to leave the logo, `man/figures/logo.svg` or `.png` (and in light mode `logo-light`, if it exists), off the pages' titles.
- `links`: `external`, what references to other packages, in code and in Rd links, link to: `sites` (the default; only the packages' own sites), `all` (also rdrr.io and CRAN) or `none` (nothing outside the package).
- `quarto`: settings merged over the generated Quarto configuration.

`_quartodown/extra.scss` and `_quartodown/extra.css`, if they exist, style every page, on top of quartodown's theme. The whole `_quartodown/` folder is copied into the Quarto project, so `quarto` settings can refer to other files in it by the same path.

See `vignette("customizing", package = "quartodown")` for the details.

Examples

```
## Not run:
use_quartodown()
build_site()

## End(Not run)
```

`preview_site` *Preview the built site*

Description

Serves `docs/` (or `docs/dev/`, for a development site; see the Configuration section of `build_site()`), as built by `build_site()`, in a web browser. The server keeps running for the rest of the R session and is reused by later calls, including `build_site()`'s (which, with a server already running, leaves the open page to reload instead of opening another). It keeps serving the previous site while `build_site()` runs. An open page reloads if the new build changed it.

Usage

```
preview_site(path = ".")
```

Arguments

`path`	Path to the package root.

Value

The site's local URL, invisibly.

Examples

```
## Not run:
build_site()
preview_site()

## End(Not run)
```

---

use_quartodown *Set up a package to use quartodown*

Description

Writes `_quartodown/_quartodown.yml`, the configuration file `build_site()` reads. It starts with a `reference:` field listing every function currently documented in `<path>/man/*.Rd` in one "All functions" section. Also adds the `.gitignore`/`.Rbuildignore` entries the build needs (see Details) if they're not already there.

Usage

```
use_quartodown(path = ".")
```

Arguments

`path`	Path to the target package root. Defaults to the current directory.

Details

In a package with a pkgdown configuration (`_pkgdown.yml`, also in `pkgdown/`), it's translated instead, with any files it needs, such as `_quartodown/extra.scss`, and the settings that couldn't be translated are listed. See "Coming from pkgdown" in `vignette("customizing", package = "quartodown")`.

An existing `_quartodown.yml`, or file in `_quartodown/`, is never overwritten.

`use_quartodown()` adds the following lines to `.gitignore` and `.Rbuildignore` (only the ones not already present in each file):

```
# .gitignore
_quarto/*
!_quarto/_freeze/

# .Rbuildignore
^docs$
^_quarto$
^_quartodown$
```

`_quarto/` is the Quarto project `build_site()` generates and renders into `docs/`. Its `_freeze/` directory holds the results of code run with `build_site(freeze = TRUE)`, which can be committed so later builds, e.g. on CI, reuse them (they aren't rerun when only the package's code or its dependencies change, so delete it to refresh them). `_quartodown/` holds the site's configuration and any files it uses, such as `extra.scss`.

Value

Invisibly, the path to `_quartodown/_quartodown.yml`.

Examples

```
pkg <- tempfile("examplepkg")
dir.create(pkg)
write(
  "Package: examplepkg\nVersion: 0.0.0.9000",
  file.path(pkg, "DESCRIPTION")
)
use_quartodown(pkg)
readLines(file.path(pkg, "_quartodown", "_quartodown.yml"))
unlink(pkg, recursive = TRUE)
```

---

use_quartodown_action *Set up a GitHub Actions workflow that publishes the site*

Description

Writes `.github/workflows/quartodown.yaml`, a GitHub Actions workflow that builds the site and deploys it to the `gh-pages` branch. It runs `build_site()` on every push, pull request and release, but only deploys when it isn't a pull request. Also adds `^\.github$` to `.Rbuildignore` if it's not already there.

Usage

```
use_quartodown_action(path = ".", overwrite = FALSE)
```

Arguments

`path`	Path to the target package root. Defaults to the current directory.
`overwrite`	Logical. Replace an existing `.github/workflows/quartodown.yaml`? By default it's left as is.

Details

Once the workflow's first run has created the `gh-pages` branch, go to the *Pages* section of the repository's settings on GitHub and choose to deploy from that branch.

Value

Invisibly, the path to the workflow file.

Examples

```
pkg <- tempfile("examplepkg")
dir.create(pkg)
write(
  "Package: examplepkg\nVersion: 0.0.0.9000",
  file.path(pkg, "DESCRIPTION")
)
use_quartodown_action(pkg)
list.files(pkg, recursive = TRUE, all.files = TRUE)
unlink(pkg, recursive = TRUE)
```

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