Package 'quartodown'

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Title Package Websites Built Entirely with 'Quarto'

Version 0.1.0

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

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

Suggests httr2, pkgload, servr, testthat (>= 3.0.0), withr

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NeedsCompilation no

Author Bjarke Hautop Kristensen [aut, cre, cph], Hadley Wickham [ctb] (Code adapted from pkgdown), Jay Hesselberth [ctb] (Code adapted from pkgdown), Maëlle Salmon [ctb] (Code adapted from pkgdown), Olivier Roy [ctb] (Code adapted from pkgdown), Salim Brüggemann [ctb] (Code adapted from pkgdown), Posit Software, PBC [cph] (Copyright holder of pkgdown)

Maintainer Bjarke Hautop Kristensen <bjarke.hautop@gmail.com>

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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,
  preview = interactive()
)
```

Arguments

`path`	Path to the package root.
`tooltips`	Logical. Link references to the package's own functions (in code blocks and inline code) to their reference page, with a hover tooltip showing the function's usage and the first sentence of its description?
`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/`.
`quiet`	Logical. Hide Quarto's rendering output?
`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.
`preview`	Logical. Open the built site in a web browser with `preview_site()`? By default, only in interactive sessions.

Details

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, if it isn't 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 the same as 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. 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, if not from 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 darkly.
- redirects: pairs of paths, from an old page to the one replacing it, such as ["reference/old.html", "reference/ne
- 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/`, as built by `build_site()`, in a web browser, and reloads the page when the site is rebuilt. 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).

Usage

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

Arguments

`path`	Path to the package root.

Value

The server, invisibly; see `servr::httw()`.

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

An existing `_quartodown.yml` 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. `_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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