Package: hubDevs (via r-universe)

October 4, 2026

Title Utilities for Creating and Standardising Hubverse Packages

Version 1.1.0

Description Provides utilities for creating and maintaining Hubverse R packages with consistent structure, documentation, and CI/CD workflows. Includes functions for setting up pkgdown sites, GitHub Actions, README templates, and code formatting standards.

License MIT + file LICENSE

URL https://github.com/hubverse-org/hubDevs, https://hubverse-org.github.io/hubDevs

BugReports https://github.com/hubverse-org/hubDevs/issues

Imports checkmate, cli, desc, devtools, fs, pkgdown, purrr, rlang, usethis, whisker

Suggests hubStyle, magick, knitr, quarto, rmarkdown, testthat (>= 3.0.0)

VignetteBuilder knitr, quarto

Remotes hubverse-org/hubStyle

Config/Needs/website hubverse-org/hubStyle

Config/testthat/edition 3

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Language en-US

Config/pak/sysreqs cmake libfontconfig1-dev libfreetype6-dev libfribidi-dev git make libharfbuzz-dev libgit2-dev libicu-dev libjpeg-dev libpng-dev libtiff-dev libuv1-dev libwebp-dev libxml2-dev libssl-dev libx11-dev zlib1g-dev

Repository https://hubverse-org.r-universe.dev

Date/Publication 2026-04-07 14:23:03 UTC

RemoteUrl https://github.com/hubverse-org/hubDevs

RemoteRef v1.1.0

RemoteSha ae46b7d9f9ec81f36cbbccf447cd2982114d529e

Contents

add_website_needs 2
append_hubdev_readme_footer 2
create_hubdev_pkg 3
use_hubdev_community 4
use_hubdev_github 5
use_hubdev_github_action 5
use_hubdev_lintr 6
use_hubdev_pkg_actions 6
use_hubdev_pkgdown 6
use_hubdev_pkgdown_action 7
use_hubdev_readme 8

Index **9**

`add_website_needs` *Add website Needs field to DESCRIPTION*

Description

Adds the hubverve hubStyle package as a website need to the DESCRIPTION file.

Usage

```
add_website_needs()
```

`append_hubdev_readme_footer` *Append the standard hubverse footer to a README.Rmd*

Description

Append the standard hubverse footer to a README.Rmd

Usage

```
append_hubdev_readme_footer(
  hubdocs_contribute_url = "https://hubverse.io/community/"
)
```

Arguments

`hubdocs_contribute_url`
: Character string. URL of the general contributing information page on hubDocs.

`create_hubdev_pkg` *Create hubverse package skeleton*

Description

Create hubverse package skeleton

Usage

```
create_hubdev_pkg(
  path,
  fields = list(),
  copyright_holder = "Consortium of Infectious Disease Modeling Hubs",
  organisation = "hubverse-org",
  hubdocs_contribute_url = "https://hubverse.io/community/",
  build = TRUE
)
```

Arguments

`path`	A path. If it exists, it is used. If it does not exist, it is created, provided that the parent path exists.
`fields`	A named list of fields to add to `DESCRIPTION`, potentially overriding default values. See `use_description()` for how you can set personalized defaults using package options.
`copyright_holder`	Name of the copyright holder or holders. This defaults to `"{package name} authors"`; you should only change this if you use a CLA to assign copyright to a single entity.
`organisation`	Character string. The hubverse GitHub organisation name. The user's role and the token's scopes must be such that you have permission to create repositories in the hubverse organisation.
`hubdocs_contribute_url`	Character string. URL of the general contributing information page on hubDocs.
`build`	Logical. Whether to build the README.md from README.Rmd. Defaults to `TRUE`.

Value

Path to the newly created project or package, invisibly.

use_hubdev_community *Helpers for creating community facing hubverse package documents*

Description

These functions create community facing documents detailing how contributors and the wider community can interact with hubverse packages. Each function creates the relevant file in the `.github` directory from templates and is set up with appropriate hubverse default values.

Usage

```
use_hubdev_community(
  organisation = "hubverse-org",
  hubdocs_contribute_url = "https://hubverse.io/community/"
)

use_hubdev_coc()

use_hubdev_contributing(
  organisation = "hubverse-org",
  hubdocs_contribute_url = "https://hubverse.io/community/"
)
```

Arguments

`organisation`	Character string. The hubverse GitHub organisation name. The user's role and the token's scopes must be such that you have permission to create repositories in the hubverse organisation.
`hubdocs_contribute_url`	Character string. URL of the general contributing information page on hubDocs.

Functions

- `use_hubdev_community()`: Create hubverse `CODE_OF_CONDUCT.md` and `CONTRIBUTING.md` files.
- `use_hubdev_coc()`: Create hubverse `CODE_OF_CONDUCT.md` file.
- `use_hubdev_contributing()`: Create hubverse `CONTRIBUTING.md` file.

use_hubdev_github *Set up hubverse package on GitHub*

Description

The function runs a number of internal utilities for setting up a hubverse package on GitHub:

- Creates a repo in the hubverse GitHub organisation
- Adds details of the repository to the DESCRIPTION file
- Initailises pkgdown documentation
- Creates GitHub Action workflows for:
  - standard R CMD CHECK
  - test coverage
  - linting with `lintr`
  - building pkgdown documentation and deploying production docs to GitHub Pages and PR previews to a Netlify site

Usage

```
use_hubdev_github(organisation = "hubverse-org")
```

Arguments

`organisation`	Character string. The hubverse GitHub organisation name. The user's role and the token's scopes must be such that you have permission to create repositories in the hubverse organisation.

use_hubdev_github_action *Hubverse Developer GitHub Action setup*

Description

Sets up common hubverse developer continuous integration (CI) workflows for hubverse packages hosted on GitHub using GitHub Actions. Available actions are hosted in repository hubverse-org/hubverse-developer-actions

Usage

```
use_hubdev_github_action(name)
```

Arguments

`name`	Name of workflow, i.e. the name of one of the hubverse developer action repository directories containing a GitHub Action workflow `.yaml` file.

use_hubdev_lintr *Create a basic hubverse .lintr file from template*

Description

Create a basic hubverse .lintr file from template

Usage

```
use_hubdev_lintr()
```

use_hubdev_pkg_actions *Add standard GitHub Actions workflows*

Description

Downloads standard r-lib GitHub Action workflows and writes them to the `.github/workflows` directory for:

- standard R CMD CHECK (`check-standard`)
- test coverage (`test-coverage`)
- linting with `lintr` (`lint`)
- Air format checking (`format-check`)

Usage

```
use_hubdev_pkg_actions()
```

use_hubdev_pkgdown *Configure hubverse pkgdown site*

Description

The function performs a number of actions to configure a hubverse package's pkgdown site to use the `hubStyle` template for docs styling.

- Runs `usethis::use_pkgdown()` to initialise pkgdown documentation.
- Runs `usethis::use_github_pages()` to initialise GitHub Pages for the package.
- Adds a GitHub Action workflow for building pkgdown documentation and deploying to GitHub Pages (productions) and Netlify (PR previews) using `use_hubdev_pkgdown_action()`.
- Adds the `hubStyle` repository to the `DESCRIPTION`'s `Config/Needs/website` property using `add_website_needs()`.
- Creates a favicon for the package using the `hubStyle` logo.
- Overwrites standard `_pkgdown.yml` file with customised configuration to use the hubverse `hubStyle` package for docs styling.

Usage

```
use_hubdev_pkgdown(add_logo = FALSE)
```

Arguments

add_logo	Logical. Whether to add the logo to the package.

---

use_hubdev_pkgdown_action

Use the hubdev custom pkgdown GitHub Action

Description

The functions creates a `pkgdown-netlify-preview.yaml` action in the `.github/workflows` directory. The action follows the standard pkgdown publishing to `gh-pages` in the event of a merge into `main` branch but can also be set up to publish internal PR previews to Netlify.

Usage

```
use_hubdev_pkgdown_action(remove_std = TRUE)
```

Arguments

remove_std	Logical. Whether to remove the standard pkgdown action if it exists.

Details

To activate Netlify Previews, you must:

- Create a new site on Netlify. See https://docs.netlify.com/welcome/add-new-site/ for more details.
- "Add the netlify API site ID to the GitHub repository Action secrets as `NETLIFY_SITE_ID`. See https://docs.netlify.com/api/get-started/#get-site for more details.
- Get developer token from Netlify developer account settings and add it to GitHub repository Action secrets as `NETLIFY_AUTH_TOKEN`. See https://docs.netlify.com/cli/get-started/#obtain-a-token-in-the-netlify-ui for more details.

See pkgdown docs section on PR previews for more details.

`use_hubdev_readme` *Create a basic hubverse README.Rmd from template*

Description

Create a basic hubverse README.Rmd from template

Usage

```
use_hubdev_readme(
  organisation = "hubverse-org",
  hubdocs_contribute_url = "https://hubverse.io/community/",
  build = TRUE
)
```

Arguments

`organisation`	Character string. The hubverse GitHub organisation name. The user's role and the token's scopes must be such that you have permission to create repositories in the hubverse organisation.
`hubdocs_contribute_url`	Character string. URL of the general contributing information page on hubDocs.
`build`	Logical. Whether to build the README.md from README.Rmd. Defaults to `TRUE`.

Index

add_website_needs, 2
append_hubdev_readme_footer, 2

create_hubdev_pkg, 3

use_description(), *3*
use_hubdev_coc *(*use_hubdev_community*)*, 4
use_hubdev_community, 4
use_hubdev_contributing
        *(*use_hubdev_community*)*, 4
use_hubdev_github, 5
use_hubdev_github_action, 5
use_hubdev_lintr, 6
use_hubdev_pkg_actions, 6
use_hubdev_pkgdown, 6
use_hubdev_pkgdown_action, 7
use_hubdev_readme, 8
usethis::use_github_pages(), *6*
usethis::use_pkgdown(), *6*