# Package 'usethis'

December 9, 2020

```
Title Automate Package and Project Setup
Version 2.0.0
Description Automate package and project setup tasks that are
      otherwise performed manually. This includes setting up unit testing,
      test coverage, continuous integration, Git, 'GitHub', licenses,
      'Rcpp', 'RStudio' projects, and more.
License MIT + file LICENSE
URL https://usethis.r-lib.org, https://github.com/r-lib/usethis
BugReports https://github.com/r-lib/usethis/issues
Depends R (>= 3.2)
Imports cli,
     clipr (>= 0.3.0),
      crayon,
     curl (>= 2.7),
      desc,
      fs (>= 1.3.0),
      gert (>= 1.0.2),
      gh (>= 1.2.0),
      glue (>= 1.3.0),
     jsonlite,
     lifecycle,
      purrr,
     rappdirs,
      rlang (>= 0.4.3),
      rprojroot (>= 1.2),
      rstudioapi,
      stats,
      utils,
      whisker,
      with (>= 2.3.0),
      yaml
Suggests covr,
      knitr,
      magick,
      mockr,
      rmarkdown,
      roxygen2,
```

2 R topics documented:

```
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```

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# Description

These helpers produce the markdown text you need in your README to include badges that report information, such as the CRAN version or test coverage, and link out to relevant external resources. To add badges automatically ensure your badge block starts with a line containing only <!-- badges: start --> and ends with a line containing only <!-- badges: end -->.

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#### **Usage**

```
use_badge(badge_name, href, src)
use_cran_badge()
use_bioc_badge()
use_lifecycle_badge(stage)
use_binder_badge(ref = git_branch_default(), urlpath = NULL)
```

## **Arguments**

badge\_name Badge name. Used in error message and alt text

href, src Badge link and image src stage Stage of the package lifecycle ref A Git branch, tag, or SHA

urlpath An optional urlpath component to add to the link, e.g. "rstudio" to open an

RStudio IDE instead of a Jupyter notebook. See the binder documentation for

additional examples.

#### **Details**

- use\_badge(): a general helper used in all badge functions
- use\_bioc\_badge(): badge indicates BioConductor build status
- use\_cran\_badge(): badge indicates what version of your package is available on CRAN, powered by https://www.r-pkg.org
- use\_lifecycle\_badge(): badge declares the developmental stage of a package (or argument or function) according to https://lifecycle.r-lib.org/articles/lifecycle.html:
  - Experimental
  - Maturing
  - Stable
  - Questioning
  - Superseded
  - Soft-deprecated (function or argument)
  - Deprecated (function or argument)
  - Defunct (function or argument)
- use\_binder\_badge(): badge indicates that your repository can be launched in an executable environment on https://mybinder.org/

#### See Also

Functions that configure continuous integration, such as use\_github\_actions(), also create badges.

## **Examples**

```
## Not run:
use_cran_badge()
use_lifecycle_badge("stable")
## End(Not run)
```

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browse-this	Visit important project-related web pages	
-------------	---	--

# Description

These functions take you to various web pages associated with a project (often, an R package) and return the target URL(s) invisibly. To form these URLs we consult:

- Git remotes configured for the active project that appear to be hosted on a GitHub deployment
- DESCRIPTION file for the active project or the specified package. The DESCRIPTION file is sought first in the local package library and then on CRAN.
- Fixed templates:
  - Travis CI: https://travis-ci.{EXT}/{OWNER}/{PACKAGE}
  - Circle CI: https://circleci.com/gh/{OWNER}/{PACKAGE}
  - CRAN landing page: https://cran.r-project.org/package={PACKAGE}
  - GitHub mirror of a CRAN package: https://github.com/cran/{PACKAGE} Templated URLs aren't checked for existence, so there is no guarantee there will be content at the destination.

#### Usage

```
browse_package(package = NULL)
browse_github(package = NULL)
browse_github_issues(package = NULL, number = NULL)
browse_github_pulls(package = NULL, number = NULL)
browse_github_actions(package = NULL)
browse_travis(package = NULL, ext = c("com", "org"))
browse_circleci(package = NULL)
browse_cran(package = NULL)
```

# Arguments

package	Name of package. If NULL, the active project is targeted, regardless of whether it's an R package or not.
number	Optional, to specify an individual GitHub issue or pull request. Can be a number or "new".
ext	Version of travis to use.

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#### **Details**

• browse\_package(): Assembles a list of URLs and lets user choose one to visit in a web browser. In a non-interactive session, returns all discovered URLs.

- browse\_project(): Thin wrapper around browse\_package() that always targets the active usethis project.
- browse\_github(): Visits a GitHub repository associated with the project. In the case of a fork, you might be asked to specify if you're interested in the source repo or your fork.
- browse\_github\_issues(): Visits the GitHub Issues index or one specific issue.
- browse\_github\_pulls(): Visits the GitHub Pull Request index or one specific pull request.
- browse\_travis(): Visits the project's page on Travis CI.
- browse\_circleci(): Visits the project's page on Circle CI.
- browse\_cran(): Visits the package on CRAN, via the canonical URL.

#### **Examples**

```
# works on the active project
# browse_project()

browse_package("httr")
browse_github("gh")
browse_github_issues("fs")
browse_github_issues("fs", 1)
browse_github_pulls("curl")
browse_github_pulls("curl", 183)
browse_travis("gert", ext = "org")
browse_cran("MASS")
```

ci

Continuous integration setup and badges

# Description

## **Soft-deprecated**

Some of these functions are now soft-deprecated since the tidyverse team has started using GitHub Actions (GHA) for continuous integration (CI). See use\_github\_actions() for help configuring GHA. GHA functionality in usethis is actively maintained and exercised, which is no longer true for Travis-CI or AppVeyor.

Sets up third-party continuous integration (CI) services for an R package that is developed on GitHub or, perhaps, GitLab. These functions

- Add service-specific configuration files and add them to .Rbuildignore.
- Activate a service or give the user a detailed prompt.
- Provide the markdown to insert a badge into README.

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#### **Usage**

```
use_travis(browse = rlang::is_interactive(), ext = c("com", "org"))
use_travis_badge(ext = c("com", "org"), repo_spec = NULL)
use_appveyor(browse = rlang::is_interactive())
use_appveyor_badge(repo_spec = NULL)
use_gitlab_ci()
use_circleci(browse = rlang::is_interactive(), image = "rocker/verse:latest")
use_circleci_badge(repo_spec = NULL)
```

## Arguments

browse Open a browser window to enable automatic builds for the package.

ext Which travis website to use. Defaults to "com" for https://travis-ci.com. Change

to "org" for https://travis-ci.org.

repo\_spec Optional GitHub repo specification in this form: owner/repo. This can usually

be inferred from the GitHub remotes of active project.

image The Docker image to use for build. Must be available on DockerHub. The

rocker/verse image includes TeXLive, pandoc, and the tidyverse packages. For a minimal image, try rocker/r-ver. To specify a version of R, change the tag

from latest to the version you want, e.g. rocker/r-ver:3.5.3.

use\_travis()

Adds a basic .travis.yml to the top-level directory of a package. This is a configuration file for the Travis CI continuous integration service.

```
use_travis_badge()
```

Only adds the Travis CI badge. Use for a project where Travis is already configured.

```
use_appveyor()
```

Adds a basic appveyor.yml to the top-level directory of a package. This is a configuration file for the AppVeyor continuous integration service for Windows.

```
use_appveyor_badge()
```

Only adds the AppVeyor badge. Use for a project where AppVeyor is already configured.

```
use_gitlab_ci()
```

Adds a basic .gitlab-ci.yml to the top-level directory of a package. This is a configuration file for the GitLab CI/CD continuous integration service.

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```
use_circleci()
```

Adds a basic .circleci/config.yml to the top-level directory of a package. This is a configuration file for the CircleCI continuous integration service.

```
use_circleci_badge()
```

Only adds the Circle CI badge. Use for a project where Circle CI is already configured.

create\_from\_github

Create a project from a GitHub repo

## **Description**

Creates a new local project and Git repository from a repo on GitHub, by either cloning or fork-and-cloning. In the fork-and-clone case, create\_from\_github() also does additional remote and branch setup, leaving you in the perfect position to make a pull request with pr\_init(), one of several functions that work pull requests.

create\_from\_github() works best when your GitHub credentials are discoverable. See below for more about authentication.

## Usage

```
create_from_github(
  repo_spec,
  destdir = NULL,
  fork = NA,
  rstudio = NULL,
  open = rlang::is_interactive(),
  protocol = git_protocol(),
  host = NULL,
  auth_token = deprecated(),
  credentials = deprecated())
```

## **Arguments**

repo\_spec

A string identifying the GitHub repo in one of these forms:

- Plain OWNER/REPO spec
- Browser URL, such as "https://github.com/OWNER/REPO"
- HTTPS Git URL, such as "https://github.com/OWNER/REPO.git"
- SSH Git URL, such as "git@github.com:OWNER/REPO.git"

In the case of a browser, HTTPS, or SSH URL, the host is extracted from the URL. The REPO part will be the name of the new local folder, which is also a project and Git repo.

destdir

The new folder is stored here. If NULL, defaults to user's Desktop or some other conspicuous place. You can also set a default location using the option usethis.destdir, e.g. options(usethis.destdir="a/good/dir"), perhaps saved to your .Rprofile with edit\_r\_profile()

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fork

If FALSE, we clone repo\_spec. If TRUE, we fork repo\_spec, clone that fork, and do additional set up favorable for future pull requests:

- The source repo, repo\_spec, is configured as the upstream remote, using the indicated protocol.
- The local DEFAULT branch is set to track upstream/DEFAULT, where DEFAULT is typically master or main. It is also immediately pulled, to cover the case of a pre-existing, out-of-date fork.

If fork = NA (the default), we check your permissions on repo\_spec. If you can push, we set fork = FALSE, If you cannot, we set fork = TRUE.

rstudio

Initiate an RStudio Project? Defaults to TRUE if in an RStudio session and project has no pre-existing .Rproj file. Defaults to FALSE otherwise (but note that the cloned repo may already be an RStudio Project, i.e. may already have a .Rproj file).

open

If TRUE, activates the new project:

- If RStudio desktop, the package is opened in a new session.
- If on RStudio server, the current RStudio project is activated.
- Otherwise, the working directory and active project is changed.

protocol

One of "https" or "ssh"

host

GitHub host to target, passed to the .api\_url argument of gh::gh(). If unspecified, gh defaults to "https://api.github.com", although gh's default can be customised by setting the GITHUB\_API\_URL environment variable.

For a hypothetical GitHub Enterprise instance, either "https://github.acme.com/api/v3" or "https://github.acme.com" is acceptable.

auth\_token

**Defunct**: No longer consulted now that usethis uses the gert package for Git operations, instead of git2r; gert relies on the credentials package for auth. The API requests are now authorized with the token associated with the host, as retrieved by gh::gh\_token().

credentials

**Defunct**: No longer consulted now that usethis uses the gert package for Git operations, instead of git2r; gert relies on the credentials package for auth. The API requests are now authorized with the token associated with the host, as retrieved by gh::gh\_token().

#### Git/GitHub Authentication

Many usethis functions, including those documented here, potentially interact with GitHub in two different ways:

- Via the GitHub REST API. Examples: create a repo, a fork, or a pull request.
- As a conventional Git remote. Examples: clone, fetch, or push.

Therefore two types of auth can happen and your credentials must be discoverable. Which credentials do we mean?

- A GitHub personal access token (PAT) must be discoverable by the gh package, which is used for GitHub operations via the REST API. See <a href="mailto:gh\_token\_help">gh\_token\_help</a>() for more about getting and configuring a PAT.
- If you use the HTTPS protocol for Git remotes, your PAT is also used for Git operations, such as git push. Usethis uses the gert package for this, so the PAT must be discoverable by gert. Generally gert and gh will discover and use the same PAT. This ability to "kill two birds with one stone" is why HTTPS + PAT is our recommended auth strategy for those new to Git and GitHub and PRs.

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• If you use SSH remotes, your SSH keys must also be discoverable, in addition to your PAT. The public key must be added to your GitHub account.

Git/GitHub credential management is covered in a dedicated article: Managing Git(Hub) Credentials

#### See Also

- use\_github() to go the opposite direction, i.e. create a GitHub repo from your local repo
- git\_protocol() for background on protocol (HTTPS vs SSH)
- use\_course() to download a snapshot of all files in a GitHub repo, without the need for any local or remote Git operations

## **Examples**

```
## Not run:
create_from_github("r-lib/usethis")

# repo_spec can be a URL
create_from_github("https://github.com/r-lib/usethis")

# a URL repo_spec also specifies the host (e.g. GitHub Enterprise instance)
create_from_github("https://github.acme.com/OWNER/REPO")

## End(Not run)
```

create\_package

Create a package or project

## **Description**

These functions create an R project:

- create\_package() creates an R package
- create\_project() creates a non-package project, i.e. a data analysis project

Both functions can be called on an existing project; you will be asked before any existing files are changed.

## Usage

```
create_package(
  path,
  fields = list(),
  rstudio = rstudioapi::isAvailable(),
  roxygen = TRUE,
  check_name = TRUE,
  open = rlang::is_interactive()
)

create_project(
  path,
  rstudio = rstudioapi::isAvailable(),
  open = rlang::is_interactive()
)
```

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#### **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 val-

ues. See use\_description() for how you can set personalized defaults using

package options

rstudio If TRUE, calls use\_rstudio() to make the new package or project into an RStu-

dio Project. If FALSE and a non-package project, a sentinel .here file is placed so that the directory can be recognized as a project by the here or rprojroot pack-

ages.

roxygen Do you plan to use roxygen2 to document your package?

check\_name Whether to check if the name is valid for CRAN and throw an error if not

open If TRUE, activates the new project:

• If RStudio desktop, the package is opened in a new session.

- If on RStudio server, the current RStudio project is activated.
- Otherwise, the working directory and active project is changed.

#### Value

Path to the newly created project or package, invisibly.

### See Also

create\_tidy\_package() is a convenience function that extends create\_package() by immediately applying as many of the tidyverse development conventions as possible.

edit	Open configuration files	

## **Description**

- edit\_r\_profile() opens .Rprofile
- edit\_r\_environ() opens .Renviron
- edit\_r\_makevars() opens .R/Makevars
- edit\_git\_config() opens .gitconfig or .git/config
- edit\_git\_ignore() opens .gitignore
- edit\_rstudio\_snippets() opens RStudio's snippet config for the given type.
- edit\_rstudio\_prefs() opens RStudio's preference file.

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#### Usage

## **Arguments**

scope Edit globally for the current **user**, or locally for the current **project** 

type Snippet type (case insensitive text).

#### **Details**

The edit\_r\_\*() functions consult R's notion of user's home directory. The edit\_git\_\*() functions (and **usethis** in general) inherit home directory behaviour from the **fs** package, which differs from R itself on Windows. The **fs** default is more conventional in terms of the location of user-level Git config files. See fs::path\_home() for more details.

Files created by edit\_rstudio\_snippets() will *mask*, not supplement, the built-in default snippets. If you like the built-in snippets, copy them and include with your custom snippets.

## Value

Path to the file, invisibly.

github-token

Get help with GitHub personal access tokens

## **Description**

A personal access token (PAT) is needed for certain tasks usethis does via the GitHub API, such as creating a repository, a fork, or a pull request. If you use HTTPS remotes, your PAT is also used when interacting with GitHub as a conventional Git remote. These functions help you get and manage your PAT:

- gh\_token\_help() guides you through token troubleshooting and setup
- create\_github\_token() opens a browser window to the GitHub form to generate a PAT, with suggested scopes pre-selected. It also offers advice on storing your PAT.

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• gitcreds::gitcreds\_set() helps you register your PAT with the Git credential manager used by your operating system. Later, other packages, such as usethis, gert, and gh can automatically retrieve that PAT and use it to work with GitHub on your behalf.

Usually, the first time the PAT is retrieved in an R session, it is cached in an environment variable, for easier reuse for the duration of that R session. After initial acquisition and storage, all of this should happen automatically in the background.

Git/GitHub credential management is covered in a dedicated article: Managing Git(Hub) Credentials

#### Usage

```
create_github_token(
  scopes = c("repo", "user", "gist", "workflow"),
  description = "R:GITHUB_PAT",
  host = NULL
)

gh_token_help(host = NULL)
```

#### **Arguments**

scopes Character vector of token scopes, pre-selected in the web form. Final choices

are made in the GitHub form. Read more about GitHub API scopes at https://

docs.github.com/apps/building-oauth-apps/understanding-scopes-for-oauth-apps/.

description Short description or nickname for the token. You might (eventually) have multi-

ple tokens on your GitHub account and a label can help you keep track of what

each token is for.

host GitHub host to target, passed to the .api\_url argument of gh::gh(). If un-

specified, gh defaults to "https://api.github.com", although gh's default can be

customised by setting the GITHUB\_API\_URL environment variable.

For a hypothetical GitHub Enterprise instance, either "https://github.acme.com/api/v3"

or "https://github.acme.com" is acceptable.

#### **Details**

create\_github\_token() has previously gone by some other names: browse\_github\_token()
and browse\_github\_pat().

## Value

Nothing

#### See Also

```
gh::gh_whoami() for information on an existing token and gitcreds::gitcreds_set() and
gitcreds::gitcreds_get() for a secure way to store and retrieve your PAT.
```

# **Examples**

```
## Not run:
create_github_token()
```

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```
## End(Not run)
## Not run:
gh_token_help()
## End(Not run)
```

github\_actions

GitHub Actions setup and badges

## **Description**

Sets up continuous integration (CI) for an R package that is developed on GitHub using GitHub Actions. CI can be used to trigger various operations for each push or pull request, such as:

- Run R CMD check on various operating systems and R versions
- · Build and deploy a pkgdown site
- Determine test coverage

This family of functions

- Adds the necessary configuration files and lists them in .Rbuildignore.
- Provides the markdown to insert a badge into your README.

#### Usage

```
use_github_actions()
use_github_actions_badge(name = "R-CMD-check", repo_spec = NULL)
```

## **Arguments**

name Specifies the workflow whose status the badge will report. This is the name

keyword that appears in the workflow .yaml file.

repo\_spec Optional GitHub repo specification in this form: owner/repo. This can usually

be inferred from the GitHub remotes of active project.

```
use_github_actions()
```

Configures a basic R CMD check workflow on GitHub Actions by adding a standard R-CMD-check.yaml file to the .github/workflows directory of the active project.

```
use_github_actions_badge()
```

Generates a GitHub Actions badge and that's all. It does not configure a workflow.

#### See Also

- use\_github\_action() sets up specific, individual actions, e.g. test coverage or pkgdown build and deploy.
- use\_tidy\_github\_actions() sets up the standard GitHub Actions used for tidyverse packages.

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git\_branch\_default

Determine default Git branch

#### **Description**

Figure out the default branch of the current Git repo.

#### Usage

```
git_branch_default()
```

#### Value

A branch name

## **Examples**

```
## Not run:
git_branch_default()
## End(Not run)
```

git\_credentials

Produce or register credentials for git2r

# Description

#### **Defunct**

In usethis v2.0.0, usethis switched from git2r to gert (+ credentials) for all Git operations. This pair of packages (gert + credentials) is designed to discover and use the same credentials as command line Git. As a result, a great deal of credential-handling assistance has been removed from usethis, primarily around SSH keys.

If you have credential problems, focus your troubleshooting on getting the credentials package to find your credentials. The introductory vignette is a good place to start.

If you use the HTTPS protocol (which we recommend), a GitHub personal access token will satisfy all auth needs, for both Git and the GitHub API, and is therefore the easiest approach to get working. See <a href="mailto:gh-token\_help(">gh-token\_help()</a> for more.

# Usage

```
git_credentials(protocol = deprecated(), auth_token = deprecated())
use_git_credentials(credentials = deprecated())
```

# **Arguments**

```
protocol Deprecated.
auth_token Deprecated.
credentials Deprecated.
```

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#### Value

These functions raise a warning and return an invisible NULL.

git\_protocol

See or set the default Git protocol

## **Description**

Git operations that address a remote use a so-called "transport protocol". usethis supports HTTPS and SSH. The protocol dictates the Git URL format used when usethis needs to configure the first GitHub remote for a repo:

- protocol = "https" implies https://github.com/<OWNER>/<REPO>.git
- protocol = "ssh" implies git@github.com:<OWNER>/<REPO>.git

Two helper functions are available:

• git\_protocol() reveals the protocol "in force". As of usethis v2.0.0, this defaults to "https". You can change this for the duration of the R session with use\_git\_protocol(). Change the default for all R sessions with code like this in your .Rprofile (easily editable via edit\_r\_profile()):

```
options(usethis.protocol = "ssh")
```

• use\_git\_protocol() sets the Git protocol for the current R session

This protocol only affects the Git URL for newly configured remotes. All existing Git remote URLs are always respected, whether HTTPS or SSH.

## Usage

```
git_protocol()
use_git_protocol(protocol)
```

# Arguments

```
protocol One of "https" or "ssh"
```

## Value

The protocol, either "https" or "ssh"

# **Examples**

```
## Not run:
git_protocol()

use_git_protocol("ssh")
git_protocol()

use_git_protocol("https")
git_protocol()

## End(Not run)
```

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git\_sitrep Git/GitHub sitrep

#### **Description**

Get a situation report on your current Git/GitHub status. Useful for diagnosing problems. git\_vaccinate() adds some basic R- and RStudio-related entries to the user-level git ignore file.

## Usage

```
git_sitrep()
```

## **Examples**

```
## Not run:
git_sitrep()
## End(Not run)
```

git\_vaccinate

Vaccinate your global gitignore file

## **Description**

Adds .DS\_Store, .Rproj.user, .Rdata, .Rhistory, and .httr-oauth to your global (a.k.a. user-level) .gitignore. This is good practice as it decreases the chance that you will accidentally leak credentials to GitHub.

## Usage

```
git_vaccinate()
```

issue-this

Helpers for GitHub issues

# Description

The issue\_\* family of functions allows you to perform common operations on GitHub issues from within R. They're designed to help you efficiently deal with large numbers of issues, particularly motivated by the challenges faced by the tidyverse team.

- issue\_close\_community() closes an issue, because it's not a bug report or feature request, and points the author towards RStudio Community as a better place to discuss usage (https://community.rstudio.com).
- issue\_reprex\_needed() labels the issue with the "reprex" label and gives the author some advice about what is needed.

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## Usage

```
issue_close_community(number, reprex = FALSE)
issue_reprex_needed(number)
```

## **Arguments**

number Issue number

reprex Does the issue also need a reprex?

## Saved replies

Unlike GitHub's "saved replies", these functions can:

- Be shared between people
- Perform other actions, like labelling, or closing
- Have additional arguments
- Include randomness (like friendly gifs)

## **Examples**

```
## Not run:
issue_close_community(12)
issue_reprex_needed(241, reprex = TRUE)
## End(Not run)
```

licenses

License a package

# Description

Adds the necessary infrastructure to declare your package as licensed with one of these popular open source licenses:

## Permissive:

- MIT: simple and permissive.
- Apache 2.0: MIT + provides patent protection.

# Copyleft:

- GPL v2: requires sharing of improvements.
- GPL v3: requires sharing of improvements.
- AGPL v3: requires sharing of improvements.
- LGPL v2.1: requires sharing of improvements.
- LGPL v3: requires sharing of improvements.

Creative commons licenses appropriate for data packages:

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- CC0: dedicated to public domain.
- CC-BY: Free to share and adapt, must give appropriate credit.

See https://choosealicense.com for more details and other options.

Alternatively, for code that you don't want to share with others, use\_proprietary\_license() makes it clear that all rights are reserved, and the code is not open source.

## Usage

```
use_mit_license(copyright_holder = NULL)
use_gpl_license(version = 3, include_future = TRUE)
use_agpl_license(version = 3, include_future = TRUE)
use_lgpl_license(version = 3, include_future = TRUE)
use_apache_license(version = 2, include_future = TRUE)
use_cc0_license()
use_ccby_license()
use_proprietary_license(copyright_holder)
```

## **Arguments**

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.

License version. This defaults to latest version all licenses. version

include\_future If TRUE, will license your package under the current and any potential future versions of the license. This is generally considered to be good practice because

it means your package will automatically include "bug" fixes in licenses.

## **Details**

CRAN does not permit you to include copies of standard licenses in your package, so these functions save the license as LICENSE.md and add it to .Rbuildignore.

#### See Also

For more details, refer to the license chapter in *R Packages*.

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proj\_activate

Activate a project

# **Description**

Activates a project in usethis, R session, and (if relevant) RStudio senses. If you are in RStudio, this will open a new RStudio session. If not, it will change the working directory and active project.

## Usage

```
proj_activate(path)
```

## **Arguments**

path

Project directory

#### Value

Single logical value indicating if current session is modified.

proj\_sitrep

Report working directory and usethis/RStudio project

## **Description**

proj\_sitrep() reports

- · current working directory
- the active usethis project
- the active RStudio Project

Call this function if things seem weird and you're not sure what's wrong or how to fix it. Usually, all three of these should coincide (or be unset) and proj\_sitrep() provides suggested commands for getting back to this happy state.

## Usage

```
proj_sitrep()
```

## Value

A named list, with S3 class sitrep (for printing purposes), reporting current working directory, active usethis project, and active RStudio Project

## See Also

Other project functions: proj\_utils

## **Examples**

```
proj_sitrep()
```

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proj\_utils

Utility functions for the active project

# Description

Most use\_\*() functions act on the **active project**. If it is unset, usethis uses **rprojroot** to find the project root of the current working directory. It establishes the project root by looking for a .here file, an RStudio Project, a package DESCRIPTION, Git infrastructure, a remake.yml file, or a .projectile file. It then stores the active project for use for the remainder of the session.

# Usage

```
proj_get()
proj_set(path = ".", force = FALSE)
proj_path(..., ext = "")
with_project(
  path = ".",
  code,
  force = FALSE,
  setwd = TRUE,
  quiet = getOption("usethis.quiet", default = FALSE)
)
local_project(
  path = ".",
  force = FALSE,
  setwd = TRUE,
  quiet = getOption("usethis.quiet", default = FALSE),
  .local_envir = parent.frame()
)
```

## **Arguments**

path	Path to set. This path should exist or be NULL.
force	If TRUE, use this path without checking the usual criteria for a project. Use sparingly! The main application is to solve a temporary chicken-egg problem: you need to set the active project in order to add project-signalling infrastructure, such as initialising a Git repo or adding a DESCRIPTION file.
•••	character vectors, if any values are NA, the result will also be NA. The paths follow the recycling rules used in the tibble package, namely that only length 1 arguments are recycled.
ext	An optional extension to append to the generated path.
code	Code to run with temporary active project
setwd	Whether to also temporarily set the working directory to the active project, if it is not $NULL$
quiet	Whether to suppress user-facing messages, while operating in the temporary active project

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.local\_envir The environment to use for scoping. Defaults to current execution environment.

#### **Details**

In general, end user scripts should not contain direct calls to usethis::proj\_\*() utility functions. They are internal functions that are exported for occasional interactive use or use in packages that extend usethis. End user code should call functions in rprojroot or its simpler companion, here, to programmatically detect a project and build paths within it.

#### **Functions**

- proj\_get: Retrieves the active project and, if necessary, attempts to set it in the first place.
- proj\_set: Sets the active project.
- proj\_path: Builds a path within the active project returned by proj\_get(). Thin wrapper around fs::path().
- with\_project: Runs code with a temporary active project and, optionally, working directory. It is an example of the with\_\*() functions in withr.
- local\_project: Sets an active project and, optionally, working directory until the current execution environment goes out of scope, e.g. the end of the current function or test. It is an example of the local\_\*() functions in withr.

## See Also

Other project functions: proj\_sitrep()

# **Examples**

```
## Not run:
## see the active project
proj_get()

## manually set the active project
proj_set("path/to/target/project")

## build a path within the active project (both produce same result)
proj_path("R/foo.R")
proj_path("R", "foo", ext = "R")

## build a path within SOME OTHER project
with_project("path/to/some/other/project", proj_path("blah.R"))

## convince yourself that with_project() temporarily changes the project
with_project("path/to/some/other/project", print(proj_sitrep()))

## End(Not run)
```

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pull-requests

Helpers for GitHub pull requests

#### **Description**

The pr\_\* family of functions is designed to make working with GitHub pull requests (PRs) as painless as possible for both contributors and package maintainers.

To use the pr\_\* functions, your project must be a Git repo and have one of these GitHub remote configurations:

- "ours": You can push to the GitHub remote configured as origin and it's not a fork.
- "fork": You can push to the GitHub remote configured as origin, it's a fork, and its parent is configured as upstream. origin points to your **personal** copy and upstream points to the **source repo**.

"Ours" and "fork" are two of several GitHub remote configurations examined in Common remote setups in Happy Git and GitHub for the useR.

The Pull Request Helpers article walks through the process of making a pull request with the pr\_\* functions.

The pr\_\* functions also use your Git/GitHub credentials to carry out various remote operations. See below for more.

#### Usage

```
pr_init(branch)

pr_resume(branch = NULL)

pr_fetch(number = NULL, target = c("source", "primary"))

pr_push()

pr_pull()

pr_merge_main()

pr_view(number = NULL, target = c("source", "primary"))

pr_pause()

pr_finish(number = NULL, target = c("source", "primary"))

pr_forget()
```

### **Arguments**

branch Name of a new or existing local branch. If creating a new branch, note this

should usually consist of lower case letters, numbers, and -.

number Number of PR.

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target

Which repo to target? This is only a question in the case of a fork. In a fork, there is some slim chance that you want to consider pull requests against your fork (the primary repo, i.e. origin) instead of those against the source repo (i.e. upstream, which is the default).

#### Git/GitHub Authentication

Many usethis functions, including those documented here, potentially interact with GitHub in two different ways:

- Via the GitHub REST API. Examples: create a repo, a fork, or a pull request.
- As a conventional Git remote. Examples: clone, fetch, or push.

Therefore two types of auth can happen and your credentials must be discoverable. Which credentials do we mean?

- A GitHub personal access token (PAT) must be discoverable by the gh package, which is used for GitHub operations via the REST API. See <a href="mailto:gh\_token\_help">gh\_token\_help</a>() for more about getting and configuring a PAT.
- If you use the HTTPS protocol for Git remotes, your PAT is also used for Git operations, such as git push. Usethis uses the gert package for this, so the PAT must be discoverable by gert. Generally gert and gh will discover and use the same PAT. This ability to "kill two birds with one stone" is why HTTPS + PAT is our recommended auth strategy for those new to Git and GitHub and PRs.
- If you use SSH remotes, your SSH keys must also be discoverable, in addition to your PAT. The public key must be added to your GitHub account.

Git/GitHub credential management is covered in a dedicated article: Managing Git(Hub) Credentials

#### For contributors

To contribute to a package, first use create\_from\_github("OWNER/REPO") to fork the source repository, and then check out a local copy.

Next use pr\_init() to create a branch for your PR. It is best practice to never make commits to the default branch of a fork (usually named main or master), because you do not own it. A pull request should always come from a feature branch. It will be much easier to pull upstream changes from the fork parent if you only allow yourself to work in feature branches. It is also much easier for a maintainer to explore and extend your PR if you create a feature branch.

Work locally, in your branch, making changes to files, and committing your work. Once you're ready to create the PR, run pr\_push() to push your local branch to GitHub, and open a webpage that lets you initiate the PR (or draft PR).

To learn more about the process of making a pull request, read the Pull Request Helpers vignette.

If you are lucky, your PR will be perfect, and the maintainer will accept it. You can then run pr\_finish() to delete your PR branch. In most cases, however, the maintainer will ask you to make some changes. Make the changes, then run pr\_push() to update your PR.

It's also possible that the maintainer will contribute some code to your PR: to get those changes back onto your computer, run pr\_pull(). It can also happen that other changes have occurred in the package since you first created your PR. You might need to merge the default branch (usually named main or master) into your PR branch. Do that by running pr\_merge\_main(): this makes sure that your PR is compatible with the primary repo's main line of development. Both pr\_pull() and pr\_merge\_main() can result in merge conflicts, so be prepared to resolve before continuing.

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#### For maintainers

To download a PR locally so that you can experiment with it, run pr\_fetch() and select the PR or, if you already know its number, call pr\_fetch(<pr\_number>). If you make changes, run pr\_push() to push them back to GitHub. After you have merged the PR, run pr\_finish() to delete the local branch and remove the remote associated with the contributor's fork.

#### Overview of all the functions

- pr\_init(): Does a preparatory pull of the default branch from the source repo, to get a good start point. Creates and checks out a new branch. Nothing is pushed to or created on GitHub (that does not happen until the first time you call pr\_push()).
- pr\_resume(): Resume work on a PR by switching to an existing local branch and pulling any changes from its upstream tracking branch, if it has one. If called with no arguments, up to 9 local branches are offered for interactive selection, with a preference for branches connected to PRs and for branches with recent activity.
- pr\_fetch(): Checks out a PR on the source repo for local exploration. If called with no arguments, up to 9 open PRs are offered for interactive selection. This can cause a new remote to be configured and a new local branch to be created. The local branch is configured to track its remote counterpart. The transport protocol (HTTPS vs SSH) for any new remote is inherited from the remote representing the source repo. pr\_fetch() puts a maintainer in a position where they can push changes into an internal or external PR via pr\_push().
- pr\_push(): The first time it's called, a PR branch is pushed to GitHub and you're taken to a webpage where a new PR (or draft PR) can be created. This also sets up the local branch to track its remote counterpart. Subsequent calls to pr\_push() make sure the local branch has all the remote changes and, if so, pushes local changes, thereby updating the PR.
- pr\_pull(): Pulls changes from the local branch's remote tracking branch. If a maintainer has extended your PR, this is how you bring those changes back into your local work.
- pr\_merge\_main(): Pulls changes from the default branch of the source repo into the current local branch. This can be used when the local branch is the default branch or when it's a PR branch.
- pr\_pause(): Makes sure you're up-to-date with any remote changes in the PR. Then switches back to the default branch (usually named main or master) and pulls from the source repo.
- pr\_view(): Visits the PR associated with the current branch in the browser (default) or the specific PR identified by number. (FYI browse\_github\_pulls() is a handy way to visit the list of all PRs for the current project.)
- pr\_forget(): Does local clean up when the current branch is an actual or notional PR that you want to abandon. Maybe you initiated it yourself, via pr\_init(), or you used pr\_fetch() to explore a PR from GitHub. Only does *local* operations: does not update or delete any remote branches, nor does it close any PRs. Alerts the user to any uncommitted or unpushed work that is at risk of being lost. If user chooses to proceed, switches back to the default branch, pulls changes from source repo, and deletes local PR branch. Any associated Git remote is deleted, if the "forgotten" PR was the only branch using it.
- pr\_finish(): Does post-PR clean up, but does NOT actually merge or close a PR (maintainer should do this in the browser). If number is not given, infers the PR from the upstream tracking branch of the current branch. If number is given, it does not matter whether the PR exists locally. If PR exists locally, alerts the user to uncommitted or unpushed changes, then switches back to the default branch, pulls changes from source repo, and deletes local PR branch. If the PR came from an external fork, any associated Git remote is deleted, provided it's not in use by any other local branches. If the PR has been merged and user has permission, deletes the remote branch (this is the only remote operation that pr\_finish() potentially does).

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#### **Examples**

```
## Not run:
pr_fetch(123)
## End(Not run)
```

rename\_files

Automatically rename paired R/ and test/ files

## **Description**

- Moves R/{old}.R to R/{new}.R
- Moves tests/testthat/test-{old}.R to tests/testthat/test-{new}.R
- Moves tests/testthat/test-{old}-\*.\* to tests/testthat/test-{new}-\*.\* and updates paths in the test file.
- Removes context() calls from the test file, which are unnecessary (and discouraged) as of testthat v2.1.0.

This is a potentially dangerous operation, so you must be using Git in order to use this function.

# Usage

```
rename_files(old, new)
```

#### **Arguments**

old, new

Old and new file names (with or without extensions).

rprofile-helper

Helpers to make useful changes to . Rprofile

## **Description**

All functions open your .Rprofile and give you the code you need to paste in.

- use\_devtools(): makes devtools available in interactive sessions.
- use\_usethis(): makes usethis available in interactive sessions.
- use\_reprex(): makes reprex available in interactive sessions.
- use\_conflicted(): makes conflicted available in interactive sessions.
- use\_partial\_warnings(): warns on partial matches.

#### Usage

```
use_conflicted()
use_reprex()
use_usethis()
use_devtools()
use_partial_warnings()
```

use\_addin 27

use\_addin

Add minimal RStudio Addin binding

## **Description**

This function helps you add a minimal RStudio Addin binding to inst/rstudio/addins.dcf.

#### Usage

```
use_addin(addin = "new_addin", open = rlang::is_interactive())
```

## **Arguments**

addin Name of the addin function, which should be defined in the R folder.

open Open the newly created file for editing? Happens in RStudio, if applicable, or

via utils::file.edit() otherwise.

use\_blank\_slate

Don't save/load user workspace between sessions

# **Description**

R can save and reload the user's workspace between sessions via an .RData file in the current directory. However, long-term reproducibility is enhanced when you turn this feature off and clear R's memory at every restart. Starting with a blank slate provides timely feedback that encourages the development of scripts that are complete and self-contained. More detail can be found in the blog post Project-oriented workflow.

## Usage

```
use_blank_slate(scope = c("user", "project"))
```

#### **Arguments**

scope

Edit globally for the current user, or locally for the current project

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use\_build\_ignore

Add files to . Rbuildignore

# Description

.Rbuildignore has a regular expression on each line, but it's usually easier to work with specific file names. By default, use\_build\_ignore() will (crudely) turn a filename into a regular expression that will only match that path. Repeated entries will be silently removed.

use\_build\_ignore() is designed to ignore *individual* files. If you want to ignore *all* files with a given extension, consider providing an "as-is" regular expression, using escape = FALSE; see examples.

# Usage

```
use_build_ignore(files, escape = TRUE)
```

## **Arguments**

files Character vector of path names.

escape If TRUE, the default, will escape . to \\. and surround with ^ and \$.

## **Examples**

```
## Not run:
# ignore all Excel files
use_build_ignore("[.]xlsx$", escape = FALSE)
## End(Not run)
```

use\_citation

Create a CITATION template

## **Description**

Use this if you want to encourage users of your package to cite an article or book.

# Usage

```
use_citation()
```

use\_code\_of\_conduct 29

## **Description**

Adds a CODE\_OF\_CONDUCT.md file to the active project and lists in .Rbuildignore, in the case of a package. The goal of a code of conduct is to foster an environment of inclusiveness, and to explicitly discourage inappropriate behaviour. The template comes from https://www.contributor-covenant.org, version 2: https://www.contributor-covenant.org/version/2/0/code\_of\_conduct/.

## Usage

```
use_code_of_conduct(path = NULL)
```

#### **Arguments**

path

Path of the directory to put CODE\_OF\_CONDUCT. md in, relative to the active project. Passed along to use\_directory(). Default is to locate at top-level, but .github/ is also common.

#### **Details**

If your package is going to CRAN, the link to the CoC in your README must be an absolute link to a rendered website as CODE\_OF\_CONDUCT.md is not included in the package sent to CRAN. use\_code\_of\_conduct() will automatically generate this link if (1) you use pkgdown and (2) have set the url field in \_pkgdown.yml; otherwise it will link to a copy of the CoC on https://www.contributor-covenant.org.

use\_coverage

Test coverage

# Description

Adds test coverage reporting to a package, using either Codecov (https://codecov.io) or Coveralls (https://coveralls.io).

## Usage

```
use_coverage(type = c("codecov", "coveralls"), repo_spec = NULL)
use_covr_ignore(files)
```

#### **Arguments**

type Which web service to use.

repo\_spec Optional GitHub repo specification in this form: owner/repo. This can usually

be inferred from the GitHub remotes of active project.

files Character vector of file globs.

30 use\_data

use\_cpp11

Use C++ via the cpp11 package

## **Description**

Adds infrastructure needed to use the cpp11 package, a header-only R package that helps R package developers handle R objects with C++ code. compiled code:

- · Creates src/
- Adds cpp11 to DESCRIPTION
- Creates src/code.cpp, an initial placeholder .cpp file

## Usage

```
use_cpp11()
```

use\_cran\_comments

CRAN submission comments

## **Description**

Creates cran-comments.md, a template for your communications with CRAN when submitting a package. The goal is to clearly communicate the steps you have taken to check your package on a wide range of operating systems. If you are submitting an update to a package that is used by other packages, you also need to summarize the results of your reverse dependency checks.

# Usage

```
use_cran_comments(open = rlang::is_interactive())
```

#### **Arguments**

open

Open the newly created file for editing? Happens in RStudio, if applicable, or via utils::file.edit() otherwise.

use\_data

Create package data

# Description

use\_data() makes it easy to save package data in the correct format. I recommend you save scripts that generate package data in data-raw: use use\_data\_raw() to set it up. You also need to document exported datasets.

use\_data 31

#### Usage

```
use_data(
    ...,
    internal = FALSE,
    overwrite = FALSE,
    compress = "bzip2",
    version = 2
)

use_data_raw(name = "DATASET", open = rlang::is_interactive())
```

## **Arguments**

... Unquoted names of existing objects to save.

internal If FALSE, saves each object in its own .rda file in the data/ directory. These data

files bypass the usual export mechanism and are available whenever the package

is loaded (or via data() if LazyData is not true).

If TRUE, stores all objects in a single R/sysdata.rda file. Objects in this file follow the usual export rules. Note that this means they will be exported if you are using the common exportPattern() rule which exports all objects except

for those that start with ...

overwrite By default, use\_data() will not overwrite existing files. If you really want to

do so, set this to TRUE.

compress Choose the type of compression used by save(). Should be one of "gzip",

"bzip2", or "xz".

version The serialization format version to use. The default, 2, was the default format

from R 1.4.0 to 3.5.3. Version 3 became the default from R 3.6.0 and can only

be read by R versions 3.5.0 and higher.

name Name of the dataset to be prepared for inclusion in the package.

open Open the newly created file for editing? Happens in RStudio, if applicable, or

via utils::file.edit() otherwise.

#### See Also

The data chapter of R Packages.

#### **Examples**

```
## Not run:
x <- 1:10
y <- 1:100

use_data(x, y) # For external use
use_data(x, y, internal = TRUE) # For internal use
## End(Not run)
## Not run:
use_data_raw("daisy")
## End(Not run)</pre>
```

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use\_data\_table

Prepare for importing data.table

#### **Description**

#### Questioning

use\_data\_table facilitates importing the data.table package by handling up-front some common set-up tasks for using it in your package.

This function does two main things:

- 1. Import the entire data.table namespace (with @import).
- 2. Block the usage of data.table as a dependency (DESCRIPTION field Depends); data.table should be used as an *imported* or *suggested* package only. See this discussion.

#### Usage

```
use_data_table()
```

use\_description

Create or modify a DESCRIPTION file

#### **Description**

use\_description() creates a DESCRIPTION file. Although mostly associated with R packages, a DESCRIPTION file can also be used to declare dependencies for a non-package projects. Within such a project, devtools::install\_deps() can then be used to install all the required packages. Note that, by default, use\_decription() checks for a CRAN-compliant package name. You can turn this off with check\_name = FALSE.

usethis consults the following sources, in this order, to set DESCRIPTION fields:

- fields argument of create\_package() or use\_description()
- getOption("usethis.description")
- · Defaults built into usethis

The fields discovered via options or the usethis package can be viewed with use\_description\_defaults().

If you create a lot of packages, consider storing personalized defaults as a named list in an option named "usethis.description". Here's an example of code to include in .Rprofile, which can be opened via edit\_r\_profile():

Prior to usethis v2.0.0, getOption("devtools.desc") was consulted for backwards compatibility, but now only the "usethis.description" option is supported.

use\_directory 33

#### Usage

```
use_description(fields = list(), check_name = TRUE, roxygen = TRUE)
use_description_defaults(package = NULL, roxygen = TRUE, fields = list())
```

#### **Arguments**

fields A named list of fields to add to DESCRIPTION, potentially overriding default val-

ues. See use\_description() for how you can set personalized defaults using

package options

check\_name Whether to check if the name is valid for CRAN and throw an error if not

roxygen If TRUE, sets RoxygenNote to current roxygen2 version

package Package name

#### See Also

The description chapter of R Packages

## **Examples**

```
## Not run:
use_description()

use_description(fields = list(Language = "es"))

use_description_defaults()

## End(Not run)
```

use\_directory

Use a directory

# **Description**

use\_directory() creates a directory (if it does not already exist) in the project's top-level directory. This function powers many of the other use\_functions such as use\_data() and use\_vignette().

## Usage

```
use_directory(path, ignore = FALSE)
```

# Arguments

path Path of the directory to create, relative to the project.
ignore Should the newly created file be added to .Rbuildignore?

# Examples

```
## Not run:
use_directory("inst")
## End(Not run)
```

34 use\_github

use\_git

Initialise a git repository

## **Description**

use\_git() initialises a Git repository and adds important files to .gitignore. If user consents, it also makes an initial commit.

## Usage

```
use_git(message = "Initial commit")
```

# **Arguments**

message

Message to use for first commit.

#### See Also

```
Other git helpers: use_git_config(), use_git_hook(), use_git_ignore()
```

## **Examples**

```
## Not run:
use_git()
## End(Not run)
```

use\_github

Connect a local repo with GitHub

# Description

use\_github() takes a local project and:

- Checks that the initial state is good to go:
  - Project is already a Git repo
  - Current branch is the default branch, e.g. master or main
  - No uncommitted changes
  - No pre-existing origin remote
- · Creates an associated repo on GitHub
- Adds that GitHub repo to your local repo as the origin remote
- Makes an initial push to GitHub
- Calls use\_github\_links(), if the project is an R package
- Configures origin/DEFAULT to be the upstream branch of the local DEFAULT branch, e.g. master or main

See below for the authentication setup that is necessary for all of this to work.

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#### Usage

```
use_github(
  organisation = NULL,
  private = FALSE,
  protocol = git_protocol(),
  host = NULL,
  auth_token = deprecated(),
  credentials = deprecated()
```

#### **Arguments**

organisation If supplied, the repo will be created under this organisation, instead of the login

associated with the GitHub token discovered for this host. The user's role and the token's scopes must be such that you have permission to create repositories

in this organisation.

private If TRUE, creates a private repository.

protocol One of "https" or "ssh"

host GitHub host to target, passed to the .api\_url argument of gh::gh(). If un-

specified, gh defaults to "https://api.github.com", although gh's default can be customised by setting the GITHUB API URL environment variable.

For a hypothetical GitHub Enterprise instance, either "https://github.acme.com/api/v3"

or "https://github.acme.com" is acceptable.

auth\_token, credentials

**Defunct**: No longer consulted now that usethis uses the gert package for Git operations, instead of git2r; gert relies on the credentials package for auth. The API requests are now authorized with the token associated with the host, as retrieved by gh::gh\_token().

#### Git/GitHub Authentication

Many usethis functions, including those documented here, potentially interact with GitHub in two different ways:

- Via the GitHub REST API. Examples: create a repo, a fork, or a pull request.
- As a conventional Git remote. Examples: clone, fetch, or push.

Therefore two types of auth can happen and your credentials must be discoverable. Which credentials do we mean?

- A GitHub personal access token (PAT) must be discoverable by the gh package, which is used for GitHub operations via the REST API. See <a href="mailto:gh\_token\_help">gh\_token\_help</a>() for more about getting and configuring a PAT.
- If you use the HTTPS protocol for Git remotes, your PAT is also used for Git operations, such as git push. Usethis uses the gert package for this, so the PAT must be discoverable by gert. Generally gert and gh will discover and use the same PAT. This ability to "kill two birds with one stone" is why HTTPS + PAT is our recommended auth strategy for those new to Git and GitHub and PRs.
- If you use SSH remotes, your SSH keys must also be discoverable, in addition to your PAT. The public key must be added to your GitHub account.

Git/GitHub credential management is covered in a dedicated article: Managing Git(Hub) Credentials

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#### **Examples**

```
## Not run:
pkgpath <- file.path(tempdir(), "testpkg")
create_package(pkgpath)

## now, working inside "testpkg", initialize git repository
use_git()

## create github repository and configure as git remote
use_github()

## End(Not run)</pre>
```

use\_github\_action

Use a specific GitHub Actions workflow

## **Description**

Configure an individual, specific GitHub Actions workflow, either one of the examples from r-lib/actions/examples or a custom workflow given by the url parameter.

## Usage

```
use_github_action(
  name,
  url = NULL,
  save_as = NULL,
  ignore = TRUE,
  open = FALSE
)
use_github_action_check_release(
  save_as = "R-CMD-check.yaml",
  ignore = TRUE,
  open = FALSE
use_github_action_check_standard(
  save_as = "R-CMD-check.yaml",
  ignore = TRUE,
  open = FALSE
use_github_action_check_full(
  save_as = "R-CMD-check.yaml",
  ignore = TRUE,
  open = FALSE,
  repo_spec = NULL
use_github_action_pr_commands(
```

use\_github\_action 37

```
save_as = "pr-commands.yaml",
ignore = TRUE,
open = FALSE
)
```

## **Arguments**

name	Name of the workflow file, with or without a .yaml extension.
url	The full URL to the .yaml file. By default, the corresponding workflow in https://github.com/r-lib/actions will be used.
save_as	Name of the workflow file. Defaults to $fs::path\_file(url)$ for use_github_action().
ignore	Should the newly created file be added to .Rbuildignore?
open	Open the newly created file for editing? Happens in RStudio, if applicable, or via utils::file.edit() otherwise.
repo_spec	Optional GitHub repo specification in this form: owner/repo. This can usually be inferred from the GitHub remotes of active project.

```
use_github_action_check_release()
```

This workflow installs the latest release of R on macOS and runs R CMD check via the rcmdcheck package.

```
use_github_action_check_standard()
```

This workflow runs R CMD check via the rcmdcheck package on the three major operating systems (linux, macOS, and Windows) on the latest release of R and on R-devel. This workflow is appropriate for a package that is (or will hopefully be) on CRAN or Bioconductor.

```
use_github_action_check_full()
```

This workflow runs R CMD check at least once on each of the three major operating systems (linux, macOS, and Windows) and on the current release, devel, and four previous versions of R. This is how the tidyverse team checks its packages, but it may be overkill for less widely used packages. Consider using the more streamlined workflows set up by use\_github\_actions() or use\_github\_action\_check\_standard().

```
use_github_action_pr_commands()
```

This workflow enables the use of two R-specific commands in pull request issue comments:

- /document to run roxygen2::roxygenise() and update the PR
- /style to run styler::style\_pkg() and update the PR

# See Also

github\_actions for generic workflows and badge generation.

38 use\_github\_labels

use\_github\_labels

Manage GitHub issue labels

#### **Description**

use\_github\_labels() can create new labels, update colours and descriptions, and optionally delete GitHub's default labels (if delete\_default = TRUE). It will never delete labels that have associated issues.

use\_tidy\_labels() calls use\_github\_labels() with tidyverse conventions powered by tidy\_labels(), tidy\_labels\_rename(), tidy\_label\_colours() and tidy\_label\_descriptions().

#### Usage

```
use_github_labels(
  repo_spec = deprecated(),
  labels = character(),
  rename = character(),
  colours = character(),
  descriptions = character(),
  delete_default = FALSE,
  host = deprecated(),
  auth_token = deprecated()
)
use_tidy_labels(
  repo_spec = deprecated(),
  host = deprecated(),
  auth_token = deprecated()
)
tidy_labels()
tidy_labels_rename()
tidy_label_colours()
tidy_label_descriptions()
```

#### **Arguments**

repo\_spec, host, auth\_token

**Defunct**: These arguments are now deprecated and will be removed in the future. Any input provided via these arguments is not used. The target repo, host, and auth token are all now determined from the current project's Git remotes.

labels A character vector giving labels to add.

rename A named vector with names giving old names and values giving new names. colours, descriptions

Named character vectors giving hexadecimal colours (like e02a2a) and longer descriptions. The names should match label names, and anything unmatched will be left unchanged. If you create a new label, and don't supply colours, it will be given a random colour.

use\_github\_links 39

delete\_default If TRUE, removes GitHub default labels that do not appear in the labels vector and that do not have associated issues.

#### Label usage

Labels are used as part of the issue-triage process, designed to minimise the time spent re-reading issues. The absence of a label indicates that an issue is new, and has yet to be triaged.

- reprex indicates that an issue does not have a minimal reproducible example, and that a reply has been sent requesting one from the user.
- bug indicates an unexpected problem or unintended behavior.
- feature indicates a feature request or enhancement.
- docs indicates an issue with the documentation.
- wip indicates that someone is working on it or has promised to.
- good first issue indicates a good issue for first-time contributors.
- help wanted indicates that a maintainer wants help on an issue.

## **Examples**

```
## Not run:
# typical use in, e.g., a new tidyverse project
use_github_labels(delete_default = TRUE)

# create labels without changing colours/descriptions
use_github_labels(
    labels = c("foofy", "foofier", "foofiest"),
    colours = NULL,
    descriptions = NULL
)

# change descriptions without changing names/colours
use_github_labels(
    labels = NULL,
    colours = NULL,
    descriptions = c("foofiest" = "the foofiest issue you ever saw")
)

## End(Not run)
```

 $use\_github\_links$ 

Use GitHub links in URL and BugReports

# **Description**

Populates the URL and BugReports fields of a GitHub-using R package with appropriate links. The GitHub repo to link to is determined from the current project's GitHub remotes:

- If we are not working with a fork, this function expects origin to be a GitHub remote and the links target that repo.
- If we are working in a fork, this function expects to find two GitHub remotes: origin (the fork) and upstream (the fork's parent) remote. In an interactive session, the user can confirm which repo to use for the links. In a noninteractive session, links are formed using upstream.

40 use\_github\_pages

#### Usage

```
use_github_links(
  auth_token = deprecated(),
  host = deprecated(),
  overwrite = FALSE
)
```

#### **Arguments**

host, auth\_token

**Defunct**: No longer consulted now that usethis consults the current project's GitHub remotes to get the host and then relies on gh to discover an appropriate token.

overwrite

By default, use\_github\_links() will not overwrite existing fields. Set to TRUE to overwrite existing links.

## **Examples**

```
## Not run:
use_github_links()
## End(Not run)
```

use\_github\_pages

Configure a GitHub Pages site

## Description

Activates or reconfigures a GitHub Pages site for a project hosted on GitHub. This function anticipates two specific usage modes:

- Publish from the root directory of a gh-pages branch, which is assumed to be only (or at least primarily) a remote branch. Typically the gh-pages branch is managed by an automatic "build and deploy" job, such as the one configured by use\_github\_action("pkgdown").
- Publish from the "/docs" directory of a "regular" branch, probably the repo's default branch. The user is assumed to have a plan for how they will manage the content below "/docs".

## Usage

```
use_github_pages(branch = "gh-pages", path = "/", cname = NA)
```

#### **Arguments**

branch, path

Branch and path for the site source. The default of branch = "gh-pages" and path = "/" reflects strong GitHub support for this configuration: when a gh-pages branch is first created, it is *automatically* published to Pages, using the source found in "/". If a gh-pages branch does not yet exist on the host, use\_github\_pages() creates an empty, orphan remote branch.

The most common alternative is to use the repo's default branch, coupled with path = "/docs". It is the user's responsibility to ensure that this branch pre-exists on the host.

use\_github\_release 41

Note that GitHub does not support an arbitrary path and, at the time of writing, only "/" or "/docs" are accepted.

cname

Optional, custom domain name. The NA default means "don't set or change this", whereas a value of NULL removes any previously configured custom domain.

Note that this *can* add or modify a CNAME file in your repository. If you are using Pages to host a pkgdown site, it is better to specify its URL in the pkgdown config file and let pkgdown manage CNAME.

#### Value

Site metadata returned by the GitHub API, invisibly

#### See Also

- use\_tidy\_pkgdown() combines use\_github\_pages() with other functions to fully configure a pkgdown site
- https://docs.github.com/en/free-pro-team@latest/github/working-with-github-pages
- https://docs.github.com/en/free-pro-team@latest/rest/reference/repos#pages

#### **Examples**

```
## Not run:
use_github_pages()
use_github_pages(branch = git_branch_default(), path = "/docs")
## End(Not run)
```

use\_github\_release

Draft a GitHub release

#### **Description**

Creates a **draft** GitHub release for the current package using the current version and NEWS.md. If you are comfortable that it is correct, you will need to publish the release from GitHub. It also deletes CRAN-RELEASE and checks that you've pushed all commits to GitHub.

# Usage

```
use_github_release(host = deprecated(), auth_token = deprecated())
```

## **Arguments**

```
host, auth_token
```

**Defunct**: No longer consulted now that usethis allows the gh package to lookup a token based on a URL determined from the current project's GitHub remotes.

42 use\_git\_hook

use\_git\_config

Configure Git

## **Description**

Sets Git options, for either the user or the project ("global" or "local", in Git terminology). Wraps gert::git\_config\_set() and gert::git\_config\_global\_set(). To inspect Git config, see gert::git\_config().

#### Usage

```
use_git_config(scope = c("user", "project"), ...)
```

# **Arguments**

scope Edit globally for the current **user**, or locally for the current **project**... Name-value pairs, processed as <dynamic-dots>.

#### Value

Invisibly, the previous values of the modified components, as a named list.

## See Also

```
Other git helpers: use_git_hook(), use_git_ignore(), use_git()
```

#### **Examples**

```
## Not run:
# set the user's global user.name and user.email
use_git_config(user.name = "Jane", user.email = "jane@example.org")

# set the user.name and user.email locally, i.e. for current repo/project
use_git_config(
    scope = "project",
    user.name = "Jane",
    user.email = "jane@example.org"
)

## End(Not run)
```

use\_git\_hook

Add a git hook

## **Description**

Sets up a git hook using specified script. Creates hook directory if needed, and sets correct permissions on hook.

use\_git\_ignore 43

## Usage

```
use_git_hook(hook, script)
```

#### **Arguments**

hook Hook name. One of "pre-commit", "prepare-commit-msg", "commit-msg", "post-

commit", "applypatch-msg", "pre-applypatch", "post-applypatch", "pre-rebase",

"post-rewrite", "post-checkout", "post-merge", "pre-push", "pre-auto-gc".

script Text of script to run

#### See Also

Other git helpers: use\_git\_config(), use\_git\_ignore(), use\_git()

use\_git\_ignore

Tell Git to ignore files

## **Description**

Tell Git to ignore files

# Usage

```
use_git_ignore(ignores, directory = ".")
```

## **Arguments**

ignores Character vector of ignores, specified as file globs.

directory Directory relative to active project to set ignores

## See Also

Other git helpers: use\_git\_config(), use\_git\_hook(), use\_git()

use\_git\_remote

Configure and report Git remotes

# Description

Two helpers are available:

- use\_git\_remote() sets the remote associated with name to url.
- git\_remotes() reports the configured remotes, similar to git remote -v.

# Usage

```
use_git_remote(name = "origin", url, overwrite = FALSE)
git_remotes()
```

44 use\_git\_remote

#### **Arguments**

name A string giving the short name of a remote.

url A string giving the url of a remote.

overwrite Logical. Controls whether an existing remote can be modified.

#### Value

Named list of Git remotes.

## **Examples**

```
## Not run:
# see current remotes
git_remotes()
# add new remote named 'foo', a la `git remote add <name> <url>`
use_git_remote(name = "foo", url = "https://github.com/<OWNER>/<REPO>.git")
# remove existing 'foo' remote, a la `git remote remove <name>`
use_git_remote(name = "foo", url = NULL, overwrite = TRUE)
# change URL of remote 'foo', a la `git remote set-url <name> <newurl>`
use_git_remote(
  name = "foo",
 url = "https://github.com/<OWNER>/<REPO>.git",
  overwrite = TRUE
# Scenario: Fix remotes when you cloned someone's repo, but you should
# have fork-and-cloned (in order to make a pull request).
# Store origin = main repo's URL, e.g., "git@github.com:<OWNER>/<REPO>.git"
upstream_url <- git_remotes()[["origin"]]</pre>
# IN THE BROWSER: fork the main GitHub repo and get your fork's remote URL
my_url <- "git@github.com:<ME>/<REPO>.git"
# Rotate the remotes
use_git_remote(name = "origin", url = my_url)
use_git_remote(name = "upstream", url = upstream_url)
git_remotes()
# Scenario: Add upstream remote to a repo that you fork-and-cloned, so you
# can pull upstream changes.
# Note: If you fork-and-clone via `usethis::create_from_github()`, this is
# done automatically!
# Get URL of main GitHub repo, probably in the browser
upstream_url <- "git@github.com:<OWNER>/<REPO>.git"
use_git_remote(name = "upstream", url = upstream_url)
## End(Not run)
```

use\_jenkins 45

use\_jenkins

Create Jenkinsfile for Jenkins CI Pipelines

# Description

use\_jenkins() adds a basic Jenkinsfile for R packages to the project root directory. The Jenkinsfile stages take advantage of calls to make, and so calling this function will also run use\_make() if a Makefile does not already exist at the project root.

# Usage

```
use_jenkins()
```

## See Also

The documentation on Jenkins Pipelines.

```
use_make()
```

use\_lifecycle

Use lifecycle badges

# Description

This helper copies the lifecycle badges in to the man/figures folder of your package. It also reminds you of the syntax to use them in the documentation of individual functions or arguments.

See the getting started vignette of the lifecycle package.

## Usage

```
use_lifecycle()
```

## See Also

use\_lifecycle\_badge() to signal the global lifecycle stage of your package as a whole.

46 use\_make

use\_logo

Use a package logo

# Description

This function helps you use a logo in your package:

- Enforces a specific size
- Stores logo image file at man/figures/logo.png
- Produces the markdown text you need in README to include the logo

## Usage

```
use_logo(img, geometry = "240x278", retina = TRUE)
```

## **Arguments**

img The path to an existing image file

geometry a magick::geometry string specifying size. The default assumes that you have a

hex logo using spec from http://hexb.in/sticker.html.

retina TRUE, the default, scales the image on the README, assuming that geometry is

double the desired size.

# **Examples**

```
## Not run:
use_logo("usethis.png")
## End(Not run)
```

use\_make

Create Makefile

# Description

```
use_make() adds a basic Makefile to the project root directory.
```

## Usage

```
use_make()
```

## See Also

The documentation for GNU Make.

use\_namespace 47

use\_namespace

Use a basic NAMESPACE

# Description

If roxygen is TRUE generates an empty NAMESPACE that exports nothing; you'll need to explicitly export functions with @export. If roxygen is FALSE, generates a default NAMESPACE that exports all functions except those that start with . .

# Usage

```
use_namespace(roxygen = TRUE)
```

## **Arguments**

roxygen

Do you plan to manage NAMESPACE with roxygen2?

#### See Also

The namespace chapter of R Packages.

use\_news\_md

Create a simple NEWS.md

# Description

This creates a basic NEWS.md in the root directory.

# Usage

```
use_news_md(open = rlang::is_interactive())
```

# Arguments

open

Open the newly created file for editing? Happens in RStudio, if applicable, or via utils::file.edit() otherwise.

# See Also

The important files section of R Packages.

48 use\_package\_doc

use_	pac	kage

Depend on another package

#### **Description**

use\_package() adds a CRAN package dependency to DESCRIPTION and offers a little advice about how to best use it. use\_dev\_package() adds a dependency on an in-development package, adding the dev repo to Remotes so it will be automatically installed from the correct location.

# Usage

```
use_package(package, type = "Imports", min_version = NULL)
use_dev_package(package, type = "Imports", remote = NULL)
```

#### **Arguments**

package Name of package to depend on.

type Type of dependency: must be one of "Imports", "Depends", "Suggests", "En-

hances", or "LinkingTo" (or unique abbreviation). Matching is case insensitive.

min\_version Optionally, supply a minimum version for the package. Set to TRUE to use the

currently installed version.

remote By default, an OWNER/REPO GitHub remote is inserted. Optionally, you can sup-

ply a character string to specify the remote, e.g. "gitlab::jimhester/covr",

using any syntax supported by the remotes package.

## See Also

The dependencies section of R Packages.

# **Examples**

```
## Not run:
use_package("ggplot2")
use_package("dplyr", "suggests")
use_dev_package("glue")
## End(Not run)
```

use\_package\_doc

Package-level documentation

## **Description**

Adds a dummy .R file that will prompt roxygen to generate basic package-level documentation. If your package is named "foo", this will make help available to the user via ?foo or package?foo. Once you call devtools::document(), roxygen will flesh out the .Rd file using data from the DESCRIPTION. That ensures you don't need to repeat the same information in multiple places. This .R file is also a good place for roxygen directives that apply to the whole package (vs. a specific function), such as global namespace tags like @importFrom.

use\_pipe 49

## Usage

```
use_package_doc(open = rlang::is_interactive())
```

# **Arguments**

open

Open the newly created file for editing? Happens in RStudio, if applicable, or via utils::file.edit() otherwise.

#### See Also

The documentation chapter of R Packages

use\_pipe

Use magrittr's pipe in your package

# Description

Does setup necessary to use magrittr's pipe operator, %>% in your package. This function requires the use roxygen.

- Adds magrittr to "Imports" in DESCRIPTION.
- Imports the pipe operator specifically, which is necessary for internal use.
- Exports the pipe operator, if export = TRUE, which is necessary to make %>% available to the users of your package.

# Usage

```
use_pipe(export = TRUE)
```

# **Arguments**

export

If TRUE, the file R/utils-pipe.R is added, which provides the roxygen template to import and re-export %>%. If FALSE, the necessary roxygen directive is added, if possible, or otherwise instructions are given.

# Examples

```
## Not run:
use_pipe()
## End(Not run)
```

50 use\_r

|--|--|

## **Description**

pkgdown makes it easy to turn your package into a beautiful website. A couple functions help you begin to use pkgdown:

- use\_pkgdown(): creates a pkgdown config file, adds relevant files or directories to .Rbuildignore and .gitignore, and builds favicons if your package has a logo.
- use\_github\_action("pkgdown") configures a GitHub Actions workflow to build and deploy your pkgdown site whenever you push changes to GitHub. Learn more about use\_github\_action(). This approach is actively maintained, because it is in use across many tidyverse, r-lib, and tidymodels packages.
- use\_pkgdown\_travis() **Soft-deprecated** helps you set up pkgdown for automatic deployment on Travis-CI. This is soft-deprecated, as the tidyverse team has shifted away from Travis-CI and towards GitHub Actions. use\_pkgdown\_travis() creates an empty gh-pages branch for the site and prompts about next steps regarding deployment keys and updating your .travis.yml. Requires that the current user can push to the primary repo, which must be configured as the origin remote.

## Usage

```
use_pkgdown(config_file = "_pkgdown.yml", destdir = "docs")
use_pkgdown_travis()
```

# **Arguments**

config\_file Path to the pkgdown yaml config file destdir Target directory for pkgdown docs

## See Also

https://pkgdown.r-lib.org/articles/pkgdown.html#configuration

use\_r

Create or edit R or test files

## **Description**

This pair of functions makes it easy to create paired R and test files, using the convention that the tests for R/foofy.R should live in tests/testthat/test-foofy.R. You can use them to create new files from scratch by supplying name, or if you use RStudio, you can call to create (or navigate to) the paired file based on the currently open script.

use\_rcpp 51

## Usage

```
use_r(name = NULL, open = rlang::is_interactive())
use_test(name = NULL, open = rlang::is_interactive())
```

#### **Arguments**

name Either a name without extension, or NULL to create the paired file based on cur-

rently open file in the script editor. If the R file is open, use\_test() will create/open the corresponding test file; if the test file is open, use\_r() will cre-

ate/open the corresponding R file.

open Whether to open the file for interactive editing.

#### See Also

The testing and R code chapters of R Packages.

use\_rcpp

Use C, C++, RcppArmadillo, or RcppEigen

#### **Description**

Adds infrastructure commonly needed when using compiled code:

- Creates src/
- Adds required packages to DESCRIPTION
- May create an initial placeholder .c or .cpp file
- Creates Makevars and Makevars.win files (use\_rcpp\_armadillo() only)

# Usage

```
use_rcpp(name = NULL)
use_rcpp_armadillo(name = NULL)
use_rcpp_eigen(name = NULL)
use_c(name = NULL)
```

# Arguments

name

If supplied, creates and opens src/name.{c,cpp}.

## **Details**

When using compiled code, please note that there must be at least one file inside the src/ directory prior to building the package. As a result, if an empty src/ directory is detected, either a .c or .cpp file will be added.

52 use\_readme\_rmd

use\_readme\_rmd

Create README files

# Description

Creates skeleton README files with sections for

- a high-level description of the package and its goals
- R code to install from GitHub, if GitHub usage detected
- a basic example

Use Rmd if you want a rich intermingling of code and output. Use md for a basic README. README . Rmd will be automatically added to .Rbuildignore. The resulting README is populated with default YAML frontmatter and R fenced code blocks (md) or chunks (Rmd).

If you use Rmd, you'll still need to render it regularly, to keep README.md up-to-date. devtools::build\_readme() is handy for this. You could also use GitHub Actions to re-render README.Rmd every time you push. An example workflow can be found in the examples/directory here: https://github.com/r-lib/actions/.

# Usage

```
use_readme_rmd(open = rlang::is_interactive())
use_readme_md(open = rlang::is_interactive())
```

# **Arguments**

open

Open the newly created file for editing? Happens in RStudio, if applicable, or via utils::file.edit() otherwise.

## See Also

The important files section of R Packages.

## **Examples**

```
## Not run:
use_readme_rmd()
use_readme_md()
## End(Not run)
```

use\_release\_issue 53

use\_release\_issue

Create a release checklist in a GitHub issue

# **Description**

When preparing to release a package there are quite a few steps that need to be performed, and some of the steps can take multiple hours. This function creates an issue checklist so that you can keep track of where you are in the process, and feel a sense of satisfaction as you progress. It also helps watchers of your package stay informed about where you are in the process.

# Usage

```
use_release_issue(version = NULL)
```

## **Arguments**

version

Optional version number for release. If unspecified, you can make an interactive choice.

## **Examples**

```
## Not run:
use_release_issue("2.0.0")
## End(Not run)
```

use\_revdep

Reverse dependency checks

# Description

Performs set up for checking the reverse dependencies of an R package, as implemented by the revdepcheck package:

- Adds revdep directory and adds it to .Rbuildignore
- Populates revdep/.gitignore to prevent tracking of various revdep artefacts
- Creates revdep/email.yml for use with revdepcheck::revdep\_email()
- Prompts user to run the checks with revdepcheck::revdep\_check()

# Usage

```
use_revdep()
```

54 use\_roxygen\_md

```
use_rmarkdown_template
```

Add an RMarkdown Template

## **Description**

Adds files and directories necessary to add a custom rmarkdown template to RStudio. It creates:

- inst/rmarkdown/templates/{{template\_dir}}. Main directory.
- skeleton/skeleton.Rmd. Your template Rmd file.
- template.yml with basic information filled in.

# Usage

```
use_rmarkdown_template(
  template_name = "Template Name",
  template_dir = NULL,
  template_description = "A description of the template",
  template_create_dir = FALSE
)
```

#### **Arguments**

## **Examples**

```
## Not run:
use_rmarkdown_template()
## End(Not run)
```

use\_roxygen\_md

Use roxygen2 with markdown

## **Description**

If you are already using roxygen2, but not with markdown, you'll need to use roxygen2md to convert existing Rd expressions to markdown. The conversion is not perfect, so make sure to check the results.

# Usage

```
use_roxygen_md()
```

use\_rstudio 55

use_rstudio	Add RStudio Project infrastructure
-------------	------------------------------------

## **Description**

It is likely that you want to use <code>create\_project()</code> or <code>create\_package()</code> instead of use\_rstudio()! Both <code>create\_\*()</code> functions can add RStudio Project infrastructure to a pre-existing project or package. use\_rstudio() is mostly for internal use or for those creating a usethis-like package for their organization. It does the following in the current project, often after executing <code>proj\_set(...,force = TRUE)</code>:

- Creates an . Rproj file
- Adds RStudio files to .gitignore
- Adds RStudio files to .Rbuildignore, if project is a package

# Usage

```
use_rstudio(line_ending = c("posix", "windows"))
```

## **Arguments**

line\_ending Line ending

## Description

Adds a unit test to automatically run a spell check on documentation and, optionally, vignettes during R CMD check, using the spelling package. Also adds a WORDLIST file to the package, which is a dictionary of whitelisted words. See spelling::wordlist for details.

# Usage

```
use_spell_check(vignettes = TRUE, lang = "en-US", error = FALSE)
```

# **Arguments**

vignettes Logical, TRUE to spell check all rmd and rnw files in the vignettes/ folder.

lang Preferred spelling language. Usually either "en-US" or "en-GB".

error Logical, indicating whether the unit test should fail if spelling errors are found.

Defaults to FALSE, which does not error, but prints potential spelling errors

56 use\_template

use_template	use_template	Use a usethis-style template	
--------------	--------------	------------------------------	--

# Description

Creates a file from data and a template found in a package. Provides control over file name, the addition to .Rbuildignore, and opening the file for inspection.

# Usage

```
use_template(
  template,
  save_as = template,
  data = list(),
  ignore = FALSE,
  open = FALSE,
  package = "usethis"
)
```

## **Arguments**

template	Path to template file relative to templates/ directory within package; see details.
save_as	Path of file to create, relative to root of active project. Defaults to template
data	A list of data passed to the template.
ignore	Should the newly created file be added to .Rbuildignore?
open	Open the newly created file for editing? Happens in RStudio, if applicable, or via utils::file.edit() otherwise.
package	Name of the package where the template is found.

# **Details**

This function can be used as the engine for a templating function in other packages. The template argument is used along with the package argument to derive the path to your template file; it will be expected at fs::path\_package(package = package,"templates",template). We use fs::path\_package() instead of base::system.file() so that path construction works even in a development workflow, e.g., works with devtools::load\_all() or pkgload::load\_all(). Note this describes the behaviour of fs::path\_package() in fs v1.2.7.9001 and higher.

To interpolate your data into the template, supply a list using the data argument. Internally, this function uses whisker::whisker.render() to combine your template file with your data.

#### Value

A logical vector indicating if file was modified.

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#### **Examples**

```
## Not run:
    # Note: running this will write `NEWS.md` to your working directory
    use_template(
        template = "NEWS.md",
        data = list(Package = "acme", Version = "1.2.3"),
        package = "usethis"
)
## End(Not run)
```

use\_testthat

Sets up overall testing infrastructure

## **Description**

Creates tests/testthat/, tests/testthat.R, and adds the testthat package to the Suggests field. Learn more in https://r-pkgs.org/tests.html

## Usage

```
use_testthat(edition = NULL, parallel = FALSE)
```

## **Arguments**

edition testthat edition to use. Defaults to the latest edition, i.e. the major version number of the currently installed testthat.

parallel Should tests be run in parallel? This feature appeared in testthat 3.0.0; see <a href="https://testthat.r-lib.org/articles/parallel.html">https://testthat.r-lib.org/articles/parallel.html</a> for details and caveats.

# See Also

```
use_test() to create individual test files
```

## **Examples**

```
## Not run:
use_testthat()
use_test()
use_test("something-management")
## End(Not run)
```

use\_tibble

Prepare to return a tibble

## **Description**

## Questioning

Does minimum setup such that a tibble returned by your package is handled using the tibble method for generics like print() or [. Presumably you care about this if you've chosen to store and expose an object with class tbl\_df. Specifically:

- Check that the active package uses roxygen2
- Add the tibble package to "Imports" in DESCRIPTION
- Prepare the roxygen directive necessary to import at least one function from tibble:
  - If possible, the directive is inserted into existing package-level documentation, i.e. the roxygen snippet created by use\_package\_doc()
  - Otherwise, we issue advice on where the user should add the directive

This is necessary when your package returns a stored data object that has class tbl\_df, but the package code does not make direct use of functions from the tibble package. If you do nothing, the tibble namespace is not necessarily loaded and your tibble may therefore be printed and subsetted like a base data. frame.

# Usage

```
use_tibble()
```

#### **Examples**

```
## Not run:
use_tibble()
## End(Not run)
```

```
use_tidy_github_actions
```

Helpers for tidyverse development

# Description

These helpers follow tidyverse conventions which are generally a little stricter than the defaults, reflecting the need for greater rigor in commonly used packages.

#### Usage

```
use_tidy_github_actions()
use_tidy_pkgdown()
create_tidy_package(path, copyright_holder = NULL)
use_tidy_description()
use_tidy_eval()
use_tidy_contributing()
use_tidy_support()
use_tidy_issue_template()
use_tidy_coc()
use_tidy_github()
use_tidy_style(strict = TRUE)
use_tidy_release_test_env()
```

## **Arguments**

path

A path. If it exists, it is used. If it does not exist, it is created, provided that the parent path exists.

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.

strict

Boolean indicating whether or not a strict version of styling should be applied. See styler::tidyverse\_style() for details.

## Details

- use\_tidy\_github\_actions(): Sets up the following workflows using GitHub Actions:
  - Run R CMD check on the current release, devel, and four previous versions of R.
  - Report test coverage.
  - Build and deploy a pkgdown site.
  - Provide two commands to be used in pull requests: /document to run roxygen2::roxygenise() and update the PR, and /style to run styler::style\_pkg() and update the PR.
- use\_tidy\_pkgdown(): Implements the pkgdown setup used for most tidyverse and r-lib packages:
  - use\_pkgdown() does basic local setup
  - use\_github\_pages() prepares to publish the pkgdown site from the github-pages branch

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 use\_github\_action("pkgdown") configures a GitHub Action to automatically build the pkgdown site and deploy it via GitHub Pages

- The pkgdown site's URL is added to the pkgdown configuration file, to the URL field of DESCRIPTION, and to the GitHub repo.
- create\_tidy\_package(): creates a new package, immediately applies as many of the tidy-verse conventions as possible, issues a few reminders, and activates the new package.
- use\_tidy\_description(): puts fields in standard order and alphabetises dependencies.
- use\_tidy\_eval(): imports a standard set of helpers to facilitate programming with the tidy
  eval toolkit.
- use\_tidy\_style(): styles source code according to the tidyverse style guide. This function will overwrite files! See below for usage advice.
- use\_tidy\_contributing(): adds standard tidyverse contributing guidelines.
- use\_tidy\_issue\_template(): adds a standard tidyverse issue template.
- use\_tidy\_release\_test\_env(): updates the test environment section in cran-comments.md.
- use\_tidy\_support(): adds a standard description of support resources for the tidyverse.
- use\_tidy\_coc(): equivalent to use\_code\_of\_conduct(), but puts the document in a .github/ subdirectory.
- use\_tidy\_github(): convenience wrapper that calls use\_tidy\_contributing(), use\_tidy\_issue\_template() use\_tidy\_support(), use\_tidy\_coc().

use\_tidy\_style()

Uses the styler package package to style all code in a package, project, or directory, according to the tidyverse style guide.

**Warning:** This function will overwrite files! It is strongly suggested to only style files that are under version control or to first create a backup copy.

Invisibly returns a data frame with one row per file, that indicates whether styling caused a change.

use\_tidy\_thanks

Identify contributors via GitHub activity

# Description

Derives a list of GitHub usernames, based on who has opened issues or pull requests. Used to populate the acknowledgment section of package release blog posts at <a href="https://www.tidyverse.org/blog/">https://www.tidyverse.org/blog/</a>. If no arguments are given, we retrieve all contributors to the active project since its last (GitHub) release. Unexported helper functions, releases() and ref\_df() can be useful interactively to get a quick look at release tag names and a data frame about refs (defaulting to releases), respectively.

## Usage

```
use_tidy_thanks(repo_spec = NULL, from = NULL, to = NULL)
```

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#### **Arguments**

repo\_spec Optional GitHub repo specification in any form accepted for the repo\_spec

argument of create\_from\_github() (plain spec or a browser or Git URL). A URL specification is the only way to target a GitHub host other than "github.com",

which is the default.

from, to GitHub ref (i.e., a SHA, tag, or release) or a timestamp in ISO 8601 format, spec-

ifying the start or end of the interval of interest, in the sense of [from, to]. Examples: "08a560d", "v1.3.0", "2018-02-24T00:13:45Z", "2018-05-01". When from = NULL, to = NULL, we set from to the timestamp of the most recent

(GitHub) release. Otherwise, NULL means "no bound".

#### Value

A character vector of GitHub usernames, invisibly.

## **Examples**

```
## Not run:
# active project, interval = since the last release
use_tidy_thanks()

# active project, interval = since a specific datetime
use_tidy_thanks(from = "2020-07-24T00:13:45Z")

# r-lib/usethis, interval = since a certain date
use_tidy_thanks("r-lib/usethis", from = "2020-08-01")

# r-lib/usethis, up to a specific release
use_tidy_thanks("r-lib/usethis", from = NULL, to = "v1.1.0")

# r-lib/usethis, since a specific commit, up to a specific date
use_tidy_thanks("r-lib/usethis", from = "08a560d", to = "2018-05-14")

# r-lib/usethis, but with copy/paste of a browser URL
use_tidy_thanks("https://github.com/r-lib/usethis")

## End(Not run)
```

use\_tutorial

Create a learnr tutorial

# **Description**

Creates a new tutorial below inst/tutorials/. Tutorials are interactive R Markdown documents built with the <a href="learnr-package">learnr-package</a>. use\_tutorial() does this setup:

- Adds learnr to Suggests in DESCRIPTION.
- Gitignores inst/tutorials/\*.html so you don't accidentally track rendered tutorials.
- Creates a new . Rmd tutorial from a template and, optionally, opens it for editing.
- Adds new .Rmd to .Rbuildignore.

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#### Usage

```
use_tutorial(name, title, open = rlang::is_interactive())
```

## **Arguments**

name Base for file name to use for new .Rmd tutorial. Should consist only of numbers,

letters, \_ and -. We recommend using lower case.

title The human-facing title of the tutorial.

open Open the newly created file for editing? Happens in RStudio, if applicable, or

via utils::file.edit() otherwise.

#### See Also

The learnr package documentation.

## **Examples**

```
## Not run:
use_tutorial("learn-to-do-stuff", "Learn to do stuff")
## End(Not run)
```

use\_version

Increment package version

## **Description**

use\_version() increments the "Version" field in DESCRIPTION, adds a new heading to NEWS.md (if it exists), and commits those changes (if package uses Git). It makes the same update to a line like PKG\_version = "x.y.z"; in src/version.c (if it exists).

use\_dev\_version() increments to a development version, e.g. from 1.0.0 to 1.0.0.9000. If the existing version is already a development version with four components, it does nothing. Thin wrapper around use\_version().

# Usage

```
use_version(which = NULL)
use_dev_version()
```

# **Arguments**

which

A string specifying which level to increment, one of: "major", "minor", "patch", "dev". If NULL, user can choose interactively.

# See Also

The version section of R Packages.

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#### **Examples**

```
## Not run:
## for interactive selection, do this:
use_version()

## request a specific type of increment
use_version("minor")
use_dev_version()

## End(Not run)
```

use\_vignette

Create a vignette or article

# **Description**

Creates a new vignette or article in vignettes/. Articles are a special type of vignette that appear on pkgdown websites, but are not included in the package itself (because they are added to .Rbuildignore automatically).

## Usage

```
use_vignette(name, title = name)
use_article(name, title = name)
```

#### **Arguments**

name

Base for file name to use for new vignette. Should consist only of numbers,

letters, \_ and -. Lower case is recommended.

title

The title of the vignette.

## **General setup**

- Adds needed packages to DESCRIPTION.
- Adds inst/doc to .gitignore so built vignettes aren't tracked.
- Adds vignettes/\*.html and vignettes/\*.R to .gitignore so you never accidentally track rendered vignettes.

## See Also

The vignettes chapter of R Packages.

## **Examples**

```
## Not run:
use_vignette("how-to-do-stuff", "How to do stuff")
## End(Not run)
```

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zip-utils

Download and unpack a ZIP file

## **Description**

Functions to download and unpack a ZIP file into a local folder of files, with very intentional default behaviour. Useful in pedagogical settings or anytime you need a large audience to download a set of files quickly and actually be able to find them. The underlying helpers are documented in use\_course\_details.

# Usage

```
use_course(url, destdir = getOption("usethis.destdir"))
use_zip(
  url,
  destdir = getwd(),
  cleanup = if (rlang::is_interactive()) NA else FALSE
)
```

## **Arguments**

url

Link to a ZIP file containing the materials. To reduce the chance of typos in live settings, these shorter forms are accepted:

- \* GitHub repo spec: "OWNER/REPO". Equivalent to `https://github.com/OWNER/REPO/DEFAULT\_BRANCH.zip`.
- \* bit.ly or rstd.io shortlinks: "bit.ly/xxx-yyy-zzz" or "rstd.io/foofy". The instructor must then arrange for the shortlink to point to a valid download URL for the target ZIP file. The helper [create\_download\_url()] helps to create such URLs for GitHub, DropBox,

and Google Drive.

destdir

The new folder is stored here. If NULL, defaults to user's Desktop or some other conspicuous place. You can also set a default location using the option usethis.destdir, e.g. options(usethis.destdir = "a/good/dir"), perhaps saved to your .Rprofile with edit\_r\_profile()

cleanup

Whether to delete the original ZIP file after unpacking its contents. In an interactive setting, NA leads to a menu where user can approve the deletion (or decline).

#### Value

Path to the new directory holding the unpacked ZIP file, invisibly.

# **Functions**

- use\_course: Designed with live workshops in mind. Includes intentional friction to highlight the download destination. Workflow:
  - User executes, e.g., use\_course("bit.ly/xxx-yyy-zzz").
  - User is asked to notice and confirm the location of the new folder. Specify destdir or configure the "usethis.destdir" option to prevent this.

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- User is asked if they'd like to delete the ZIP file.
- If new folder contains an .Rproj file, a new instance of RStudio is launched. Otherwise, the folder is opened in the file manager, e.g. Finder or File Explorer.

• use\_zip: More useful in day-to-day work. Downloads in current working directory, by default, and allows cleanup behaviour to be specified.

## **Examples**

```
## Not run:
# download the source of usethis from GitHub, behind a bit.ly shortlink
use_course("bit.ly/usethis-shortlink-example")
use_course("http://bit.ly/usethis-shortlink-example")

# download the source of rematch2 package from CRAN
use_course("https://cran.r-project.org/bin/windows/contrib/3.4/rematch2_2.0.1.zip")

# download the source of rematch2 package from GitHub, 4 ways
use_course("r-lib/rematch2")
use_course("https://api.github.com/repos/r-lib/rematch2/zipball/HEAD")
use_course("https://api.github.com/repos/r-lib/rematch2/zipball/master")
use_course("https://github.com/r-lib/rematch2/archive/master.zip")

## End(Not run)
```

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