# Package 'usethis'

November 26, 2024

Title Automate Package and Project Setup

```
Version 3.1.0
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 (>= 3.6)
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      utils, whisker, with (>= 2.3.0), yaml
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4 badges

badges README badges

#### **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 -->.

# Usage

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

#### **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. One of "experimental", "stable", "superseded",

or "deprecated".

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.

url A link to an existing Posit Cloud project. See the Posit Cloud documentation for

details on how to set project access and obtain a project link.

## 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 according to https://lifecycle.r-lib.org/articles/stages.html.

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• use\_binder\_badge(): badge indicates that your repository can be launched in an executable environment on https://mybinder.org/

- use\_posit\_cloud\_badge(): badge indicates that your repository can be launched in a Posit Cloud project
- use\_rscloud\_badge(): [Deprecated]: Use use\_posit\_cloud\_badge() instead.

#### 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)
```

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:
  - 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_project()
browse_github(package = NULL)
browse_github_issues(package = NULL, number = NULL)
```

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```
browse_github_pulls(package = NULL, number = NULL)
browse_github_actions(package = NULL)
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".

#### **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\_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_cran("MASS")
```

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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 for working with 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
)
```

#### **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"

destdir

Destination for the new folder, which will be named according to the REPO extracted from repo\_spec. Defaults to the location stored in the global option usethis.destdir, if defined, or to the user's Desktop or similarly conspicuous place otherwise.

fork

If FALSE, we clone repo\_spec. If TRUE, we fork repo\_spec, clone that fork, and do additional setup 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 main or master. 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.

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Initiate an RStudio Project? Defaults to TRUE if in an RStudio session and project rstudio

> 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).

If TRUE, activates the new project: open

• If using 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"

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

is a URL, host is extracted from that.

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.

#### 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 gh\_token\_help() 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

#### 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

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#### **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()
)
```

### **Arguments**

path

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

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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 using 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 global (user-level) gitignore file and ensures its path is declared in your global Git config.
- edit\_pkgdown\_config opens the pkgdown YAML configuration file for the current Project.
- 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.

git-default-branch Get or set the default Git branch

#### **Description**

The git\_default\_branch\*() functions put some structure around the somewhat fuzzy (but definitely real) concept of the default branch. In particular, they support new conventions around the Git default branch name, globally or in a specific project / Git repository.

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#### Usage

```
git_default_branch()
git_default_branch_configure(name = "main")
git_default_branch_rediscover(current_local_default = NULL)
git_default_branch_rename(from = NULL, to = "main")
```

#### Arguments

name Default name for the initial branch in new Git repositories.

current\_local\_default

Name of the local branch that is currently functioning as the default branch. If

unspecified, this can often be inferred.

from Name of the branch that is currently functioning as the default branch.

to New name for the default branch.

#### Value

Name of the default branch.

#### Background on the default branch

Technically, Git has no official concept of the default branch. But in reality, almost all Git repos have an *effective default branch*. If there's only one branch, this is it! It is the branch that most bug fixes and features get merged in to. It is the branch you see when you first visit a repo on a site such as GitHub. On a Git remote, it is the branch that HEAD points to.

Historically, master has been the most common name for the default branch, but main is an increasingly popular choice.

```
git_default_branch_configure()
```

This configures init.defaultBranch at the global (a.k.a user) level. This setting determines the name of the branch that gets created when you make the first commit in a new Git repo. init.defaultBranch only affects the local Git repos you create in the future.

```
git_default_branch()
```

This figures out the default branch of the current Git repo, integrating information from the local repo and, if applicable, the upstream or origin remote. If there is a local vs. remote mismatch, git\_default\_branch() throws an error with advice to call git\_default\_branch\_rediscover() to repair the situation.

For a remote repo, the default branch is the branch that HEAD points to.

For the local repo, if there is only one branch, that must be the default! Otherwise we try to identify the relevant local branch by looking for specific branch names, in this order:

• whatever the default branch of upstream or origin is, if applicable

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- main
- master
- the value of the Git option init.defaultBranch, with the usual deal where a local value, if present, takes precedence over a global (a.k.a. user-level) value

```
git_default_branch_rediscover()
```

This consults an external authority – specifically, the remote **source repo** on GitHub – to learn the default branch of the current project / repo. If that doesn't match the apparent local default branch (for example, the project switched from master to main), we do the corresponding branch renaming in your local repo and, if relevant, in your fork.

See <a href="https://happygitwithr.com/common-remote-setups.html">https://happygitwithr.com/common-remote-setups.html</a> for more about GitHub remote configurations and, e.g., what we mean by the source repo. This function works for the configurations "ours", "fork", and "theirs".

```
git_default_branch_rename()
```

Note: this only works for a repo that you effectively own. In terms of GitHub, you must own the **source repo** personally or, if organization-owned, you must have admin permission on the **source repo**.

This renames the default branch in the **source repo** on GitHub and then calls git\_default\_branch\_rediscover(), to make any necessary changes in the local repo and, if relevant, in your personal fork.

See <a href="https://happygitwithr.com/common-remote-setups.html">https://happygitwithr.com/common-remote-setups.html</a> for more about GitHub remote configurations and, e.g., what we mean by the source repo. This function works for the configurations "ours", "fork", and "no\_github".

Regarding "no\_github": Of course, this function does what you expect for a local repo with no GitHub remotes, but that is not the primary use case.

#### **Examples**

```
## Not run:
git_default_branch()

## End(Not run)
## Not run:
git_default_branch_configure()

## End(Not run)
## Not run:
git_default_branch_rediscover()

# you can always explicitly specify the local branch that's been playing the
# role of the default
git_default_branch_rediscover("unconventional_default_branch_name")

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

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```
# you can always explicitly specify one or both branch names
git_default_branch_rename(from = "this", to = "that")
## End(Not run)
```

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.
- 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. GitHub is encouraging the use of PATs that expire after, e.g., 30 days, so prepare yourself to re-generate and re-store your PAT periodically.

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 = "DESCRIBE THE TOKEN'S USE CASE",
  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 multiple tokens on your GitHub account and a label can help you keep track of what

each token is for.

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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.

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

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()):

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```
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)
```

git\_sitrep

Git/GitHub sitrep

## **Description**

Get a situation report on your current Git/GitHub status. Useful for diagnosing problems. The default is to report all values; provide values for tool or scope to be more specific.

#### **Usage**

```
git_sitrep(tool = c("git", "github"), scope = c("user", "project"))
```

## Arguments

tool	Report for	git. or	github

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

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#### **Examples**

```
## Not run:
# report all
git_sitrep()
# report git for current user
git_sitrep("git", "user")
## End(Not run)
```

git\_vaccinate

Vaccinate your global gitignore file

#### **Description**

Adds .Rproj.user, .Rhistory, .Rdata, .httr-oauth, .DS\_Store, and .quarto 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. git\_vaccinate() also tries to detect and fix the situation where you have a global gitignore file, but it's missing from your global Git config.

#### 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 Posit Community as a better place to discuss usage (https://forum.posit.co).
- issue\_reprex\_needed() labels the issue with the "reprex" label and gives the author some advice about what is needed.

#### Usage

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

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#### **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, reprex = TRUE)
issue_reprex_needed(241)
## 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:

- 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.

proj\_activate 19

#### 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.

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

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*.

ivate 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.

20 proj\_sitrep

#### **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.

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.

If you are puzzled why a path (usually the current working directory) does *not* appear to be inside project, it can be helpful to call here::dr\_here() to get much more verbose feedback.

### 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.

proj\_utils

• • •	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
.local_envir	The environment to use for scoping. Defaults to current execution environment.

#### **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 paths 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 about auth. The pr\_\* functions also proactively check for agreement re: the default branch in your local repo and the source repo. See git\_default\_branch() 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()
```

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#### 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.

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"). This forks the source repository and checks 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 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.

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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.

#### 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(): As a contributor, start work on a new PR by ensuring that your local repo is up-to-date, then creating and checking out a new branch. Nothing is pushed to or created on GitHub until you call pr\_push().
- pr\_fetch(): As a maintainer, review or contribute changes to an existing PR by creating a local branch that tracks the remote PR. pr\_fetch() does as little work as possible, so you can also use it to resume work on an PR that already has a local branch (where it will also ensure your local branch is up-to-date). If called with no arguments, up to 9 open PRs are offered for interactive selection.
- 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\_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 and pulls from the source repo. Use pr\_resume() with name of branch or use pr\_fetch() to resume using PR number.
- 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.)

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• 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).

# **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 src/{old}.\* to src/{new}.\*
- 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 .R extensions).

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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()
```

ui\_silence

Suppress usethis's messaging

## **Description**

Execute a bit of code without usethis's normal messaging.

#### Usage

```
ui_silence(code)
```

# Arguments

code

Code to execute with usual UI output silenced.

#### Value

Whatever code returns.

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#### **Examples**

```
# compare the messaging you see from this:
browse_github("usethis")
# vs. this:
ui_silence(
   browse_github("usethis")
)
```

usethis\_options

Options consulted by usethis

#### **Description**

User-configurable options consulted by usethis, which provide a mechanism for setting default behaviors for various functions.

If the built-in defaults don't suit you, set one or more of these options. Typically, this is done in the .Rprofile startup file, which you can open for editing with edit\_r\_profile() - this will set the specified options for all future R sessions. Your code will look something like:

```
options(
  usethis.description = list(
    "Authors@R" = utils::person(
       "Jane", "Doe",
       email = "jane@example.com",
       role = c("aut", "cre"),
       comment = c(ORCID = "YOUR-ORCID-ID")
    ),
    License = "MIT + file LICENSE"
  ),
  usethis.destdir = "/path/to/folder/", # for use_course(), create_from_github()
  usethis.protocol = "ssh", # Use ssh git protocol
  usethis.overwrite = TRUE # overwrite files in Git repos without confirmation
)
```

## Options for the usethis package

- usethis.description: customize the default content of new DESCRIPTION files by setting this option to a named list. If you are a frequent package developer, it is worthwhile to preconfigure your preferred name, email, license, etc. See the example above and the article on usethis setup for more details.
- usethis.destdir: Default directory in which to place new projects downloaded by use\_course() and create\_from\_github(). If this option is unset, the user's Desktop or similarly conspicuous place will be used.
- usethis.protocol: specifies your preferred transport protocol for Git. Either "https" (default) or "ssh":
  - usethis.protocol = "https" implies https://github.com/<OWNER>/<REPO>.git

use\_addin 29

usethis.protocol = "ssh" implies git@github.com:<OWNER>/<REPO>.gitYou can also change this for the duration of your R session with use\_git\_protocol().

- usethis.overwrite: If TRUE, usethis overwrites an existing file without asking for user confirmation if the file is inside a Git repo. The rationale is that the normal Git workflow makes it easy to see and selectively accept/discard any proposed changes.
- usethis.quiet: Set to TRUE to suppress user-facing messages. Default FALSE.
- usethis.allow\_nested\_project: Whether or not to allow you to create a project inside another project. This is rarely a good idea, so this option defaults to FALSE.

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\_author

Add an author to the Authors@R field in DESCRIPTION

#### **Description**

use\_author() adds a person to the Authors@R field of the DESCRIPTION file, creating that field if necessary. It will not modify, e.g., the role(s) or email of an existing author (judged using their "Given Family" name). For that we recommend editing DESCRIPTION directly. Or, for programmatic use, consider calling the more specialized functions available in the **desc** package directly.

- use\_author() also surfaces two other situations you might want to address:
  - Explicit use of the fields Author or Maintainer. We recommend switching to the more modern Authors@R field instead, because it offers richer metadata for various downstream uses. (Note that Authors@R is *eventually* processed to create Author and Maintainer fields, but only when the tar.gz is built from package source.)
  - Presence of the fake author placed by create\_package() and use\_description(). This happens when usethis has to create a DESCRIPTION file and the user hasn't given any author information via the fields argument or the global option "usethis.description". The placeholder looks something like First Last <first.last@example.com> [aut, cre] and use\_author() offers to remove it in interactive sessions.

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#### Usage

```
use_author(given = NULL, family = NULL, ..., role = "ctb")
```

## **Arguments**

given a character vector with the given names, or a list thereof. family a character string with the *family* name, or a list thereof. Arguments passed on to utils::person . . . middle a character string with the collapsed middle name(s). Deprecated, see Details. email a character string (or vector) giving an e-mail address (each), or a list thereof. comment a character string (or vector) providing comments, or a list thereof. first a character string giving the first name. Deprecated, see **Details**. last a character string giving the last name. Deprecated, see **Details**. a character vector specifying the role(s) of the person (see Details), or a list

thereof.

### **Examples**

role

```
## Not run:
use_author(
 given = "Lucy",
 family = "van Pelt",
 role = c("aut", "cre"),
 email = "lucy@example.com",
 comment = c(ORCID = "LUCY-ORCID-ID")
use_author("Charlie", "Brown")
## End(Not run)
```

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.

use\_build\_ignore 31

#### Usage

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

#### **Arguments**

scope

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

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()
```

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use\_code\_of\_conduct
Add a code of conduct

#### **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 2.1: https://www.contributor-covenant.org/version/2/1/code\_of\_conduct/.

#### Usage

```
use_code_of_conduct(contact, path = NULL)
```

#### **Arguments**

contact Contact details for making a code of conduct report. Usually an email address.

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)
```

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#### **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.

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:

- 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.

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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.

#### Usage

```
use_data(
    ...,
    internal = FALSE,
    overwrite = FALSE,
    compress = "bzip2",
    version = 3,
    ascii = FALSE
)

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

#### **Arguments**

 Unquoted	d names of	f existing	objects t	o 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, 3, can only be read by R

versions 3.5.0 and higher. For R 1.4.0 to 3.5.3, use version 2.

ascii if TRUE, an ASCII representation of the data is written. The default value of

ascii is FALSE which leads to a binary file being written. If NA and version >= 2, a different ASCII representation is used which writes double/complex num-

bers as binary fractions.

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.

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#### 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>
```

use\_data\_table

Prepare for importing data.table

# Description

use\_data\_table() imports the data.table() function from the data.table package, as well as several important symbols: :=, .SD, .BY, .N, .I, .GRP, .NGRP, .EACHI. This is a minimal setup and you can learn much more in the "Importing data.table" vignette: https://rdatatable.gitlab.io/data.table/articles/dat In addition to importing these functions, use\_data\_table() also blocks the usage of data.table in the Depends field of the DESCRIPTION file; 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 project. 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:

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- 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():

```
options(
  usethis.description = list(
    "Authors@R" = utils::person(
       "Jane", "Doe",
       email = "jane@example.com",
       role = c("aut", "cre"),
       comment = c(ORCID = "YOUR-ORCID-ID")
    ),
    Language = "es",
    License = "MIT + file LICENSE"
  )
)
```

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

#### 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 values. Default values are taken from the "usethis.description" option or the usethis package (in that order), and can be viewed with use_description_defaults().
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

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#### **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)
```

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")
```

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#### **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. main or master
  - 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. main or master

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

## Usage

```
use_github(
  organisation = NULL,
  private = FALSE,
  visibility = c("public", "private", "internal"),
  protocol = git_protocol(),
  host = NULL
)
```

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#### **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.

visibility Only relevant for organisation-owned repos associated with certain GitHub En-

terprise products. The special "internal" visibility grants read permission to all organisation members, i.e. it's intermediate between "private" and "public", within GHE. When specified, visibility takes precedence over private

= TRUE/FALSE.

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.

#### 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 gh\_token\_help() 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

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

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```
## now, working inside "testpkg", initialize git repository
use_git()
## create github repository and configure as git remote
use_github()
## End(Not run)
```

use\_github\_action

Set up a GitHub Actions workflow

## 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, e.g. running R CMD check or building and deploying a pkgdown site.

#### **Workflows:**

There are four particularly important workflows that are used by many packages:

- check-standard: Run R CMD check using R-latest on Linux, Mac, and Windows, and using R-devel and R-oldrel on Linux. This is a good baseline if you plan on submitting your package to CRAN.
- test-coverage: Compute test coverage and report to <a href="https://about.codecov.io">https://about.codecov.io</a> by calling covr::codecov().
- pkgdown: Automatically build and publish a pkgdown website. But we recommend instead calling use\_pkgdown\_github\_pages() which performs other important set up.
- pr-commands: Enables the use of two R-specific commands in pull request issue comments: /document to run roxygen2::roxygenise() and /style to run styler::style\_pkg(). Both will update the PR with any changes once they're done.

If you call use\_github\_action() without arguments, you'll be prompted to pick from one of these. Otherwise you can see a complete list of possibilities provided by r-lib at <a href="https://github.com/r-lib/actions/tree/v2/examples">https://github.com/r-lib/actions/tree/v2/examples</a>, or you can supply your own url to use any other workflow.

## Usage

```
use_github_action(
  name = NULL,
  ref = NULL,
  url = NULL,
  save_as = NULL,
  readme = NULL,
  ignore = TRUE,
  open = FALSE,
  badge = NULL
)
```

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# Arguments

name	For use_github_action(): Name of one of the example workflow from https: //github.com/r-lib/actions/tree/v2/examples (with or without extension), e.g. "pkgdown", "check-standard.yaml".
	If the name starts with check-, save_as will default to R-CMD-check.yaml and badge default to TRUE.
ref	Desired Git reference, usually the name of a tag ("v2") or branch ("main"). Other possibilities include a commit SHA ("d1c516d") or "HEAD" (meaning "tip of remote's default branch"). If not specified, defaults to the latest published release of r-lib/actions (https://github.com/r-lib/actions/releases).
url	The full URL to a .yaml file on GitHub. See more details in $use\_github\_file()$ .
save_as	Name of the local workflow file. Defaults to name or fs::path_file(url) for use_github_action(). Do not specify any other part of the path; the parent directory will always be .github/workflows, within the active project.
readme	The full URL to a README file that provides more details about the workflow. Ignored when url is NULL.
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.
badge	Should we add a badge to the README?

# **Examples**

```
## Not run:
use_github_action()
use_github_action_check_standard()
use_github_action("pkgdown")
## End(Not run)
```

 $use\_github\_file$ 

Copy a file from any GitHub repo into the current project

# Description

Gets the content of a file from GitHub, from any repo the user can read, and writes it into the active project. This function wraps an endpoint of the GitHub API which supports specifying a target reference (i.e. branch, tag, or commit) and which follows symlinks.

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#### Usage

```
use_github_file(
  repo_spec,
  path = NULL,
  save_as = NULL,
  ref = NULL,
  ignore = FALSE,
  open = FALSE,
  overwrite = FALSE,
  host = NULL
)
```

#### **Arguments**

repo\_spec

A string identifying the GitHub repo or, alternatively, a GitHub file URL. Acceptable forms:

- Plain OWNER/REPO spec
- A blob URL, such as "https://github.com/OWNER/REPO/blob/REF/path/to/some/file"

In the case of a URL, the path, ref, and host are extracted from it, in addition to the repo\_spec.

Path of file to copy, relative to the GitHub repo it lives in. This is extracted from

repo\_spec when user provides a URL.

save\_as Path of file to create, relative to root of active project. Defaults to the last part of

path, in the sense of basename(path) or fs::path\_file(path).

ref The name of a branch, tag, or commit. By default, the file at path will be

copied from its current state in the repo's default branch. This is extracted from

repo\_spec when user provides a URL.

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.

overwrite Force overwrite of existing file?

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.

## Value

A logical indicator of whether a file was written, invisibly.

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#### **Examples**

```
## Not run:
use_github_file(
   "https://github.com/r-lib/actions/blob/v2/examples/check-standard.yaml")

use_github_file(
   "r-lib/actions",
   path = "examples/check-standard.yaml",
   ref = "v2",
   save_as = ".github/workflows/R-CMD-check.yaml"
)

## End(Not run)
```

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

#### tidyverse 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.

There are four mutually exclusive labels that indicate the overall "type" of issue:

- bug: an unexpected problem or unintended behavior.
- documentation: requires changes to the docs.
- feature: feature requests and enhancement.
- upkeep: general package maintenance work that makes future development easier.

Then there are five labels that are needed in most repositories:

- breaking change: issue/PR will requires a breaking change so should be not be included in patch releases.
- reprex indicates that an issue does not have a minimal reproducible example, and that a reply has been sent requesting one from the user.
- good first issue indicates a good issue for first-time contributors.
- help wanted indicates that a maintainer wants help on an issue.
- wip indicates that someone is working on it or has promised to.

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Finally most larger repos will accumulate their own labels for specific areas of functionality. For example, usethis has labels like "description", "paths", "readme", because time has shown these to be common sources of problems. These labels are helpful for grouping issues so that you can tackle related problems at the same time.

Repo-specific issues should have a grey background (#eeeeee) and an emoji. This keeps the issue page visually harmonious while still giving enough variation to easily distinguish different types of label.

## Usage

```
use_github_labels(
  labels = character(),
  rename = character(),
  colours = character(),
  descriptions = character(),
  delete_default = FALSE
)

use_tidy_github_labels()

tidy_labels()

tidy_labels_rename()

tidy_label_colours()

tidy_label_descriptions()
```

## **Arguments**

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.

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

```
## 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"),
```

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```
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.

#### Usage

```
use_github_links(overwrite = FALSE)
```

#### **Arguments**

overwrite

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

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

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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.

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\_pkgdown\_github\_pages() combines use\_github\_pages() with other functions to fully configure a pkgdown site
- https://docs.github.com/en/pages
- https://docs.github.com/en/rest/pages

use\_github\_release 47

#### **Examples**

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

use\_github\_release

Publish a GitHub release

## **Description**

Pushes the current branch (if safe) then publishes a GitHub release for the latest CRAN submission.

If you use devtools::submit\_cran() to submit to CRAN, information about the submitted state is captured in a CRAN-SUBMISSION file. use\_github\_release() uses this info to populate the GitHub release notes and, after success, deletes the file. In the absence of such a file, we assume that current state (SHA of HEAD, package version, NEWS) is the submitted state.

## Usage

```
use_github_release(publish = TRUE)
```

## **Arguments**

publish

If TRUE, publishes a release. If FALSE, creates a draft release.

use\_gitlab\_ci

Continuous integration setup and badges

# **Description**

#### [Questioning]

These functions are not actively used by the tidyverse team, and may not currently work. Use at your own risk.

Sets up third-party continuous integration (CI) services for an R package on GitLab or CircleCI. 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_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.

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.

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

be inferred from the GitHub remotes of active project.

```
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.

```
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.

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>.

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#### Value

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

#### See Also

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

## **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 the specified script. Creates a hook directory if needed, and sets correct permissions on hook.

## 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(), use_git_config(), use_git_ignore()
```

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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(), use\_git\_config(), use\_git\_hook()

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()
```

## 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.

use\_import\_from 51

#### **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\_import\_from

Import a function from another package

#### Description

use\_import\_from() imports a function from another package by adding the roxygen2 @importFrom tag to the package-level documentation (which can be created with use\_package\_doc()). Import-

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ing a function from another package allows you to refer to it without a namespace (e.g., fun() instead of package::fun()).

use\_import\_from() also re-documents the NAMESPACE, and re-load the current package. This ensures that fun is immediately available in your development session.

## Usage

```
use_import_from(package, fun, load = is_interactive())
```

# Arguments

package Package name

fun A vector of function names

load Logical. Re-load with pkgload::load\_all()?

## Value

Invisibly, TRUE if the package document has changed, FALSE if not.

## **Examples**

```
## Not run:
use_import_from("glue", "glue")
## End(Not run)
```

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 53

use\_lifecycle

Use lifecycle badges

## **Description**

This helper:

- Adds lifecycle as a dependency.
- Imports lifecycle::deprecated() for use in function arguments.
- Copies the lifecycle badges into man/figures.
- Reminds you how to use the badge syntax.

Learn more at https://lifecycle.r-lib.org/articles/communicate.html

## Usage

```
use_lifecycle()
```

#### See Also

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

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.

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## **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

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 55

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 other markdown files section of R Packages.

use\_package

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. There is no helper to remove a dependency: to do that, simply remove that package from your DESCRIPTION file

use\_package() exists to support a couple of common maneuvers:

- Add a dependency to Imports or Suggests or LinkingTo.
- Add a minimum version to a dependency.
- Specify the minimum supported version for R.

use\_package() probably works for slightly more exotic modifications, but at some point, you should edit DESCRIPTION yourself by hand. There is no intention to account for all possible edge cases.

#### Usage

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

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#### **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 or use a version string suitable for numeric\_version(),

such as "2.5.0".

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")

# Depend on R version 4.1
use_package("R", type = "Depends", min_version = "4.1")
## End(Not run)
```

use\_package\_doc

Package-level documentation

# Description

Adds a dummy .R file that will cause roxygen2 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(), roxygen2 will flesh out the .Rd file using data from the DESCRIPTION. That ensures you don't need to repeat (and remember to update!) 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.

#### 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.

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#### 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 of **roxygen2**.

- 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)
```

use\_pkgdown

Use pkgdown

## **Description**

pkgdown makes it easy to turn your package into a beautiful website. usethis provides two functions to help you use pkgdown:

- use\_pkgdown(): creates a pkgdown config file and adds relevant files or directories to .Rbuildignore and .gitignore.
- use\_pkgdown\_github\_pages(): implements the GitHub setup needed to automatically publish your pkgdown site to GitHub pages:

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- (first, it calls use\_pkgdown())
- use\_github\_pages() prepares to publish the pkgdown site from the gh-pages branch
- 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.
- Packages owned by certain GitHub organizations (tidyverse, r-lib, and tidymodels) get some special treatment, in terms of anticipating the (eventual) site URL and the use of a pkgdown template.

#### Usage

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

## **Arguments**

config\_file Path to the pkgdown yaml config file, relative to the project. 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 companion file based on the currently open file. This also works when a test snapshot file is active, i.e. if you're looking at tests/testthat/\_snaps/foofy.md, use\_r() or use\_test() take you to R/foofy.R or tests/testthat/test-foofy.R, respectively.

#### Usage

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

#### **Arguments**

name Either a string giving a file name (without directory) or NULL to take the name

from the currently open file in RStudio.

open Whether to open the file for interactive editing.

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#### Renaming files in an existing package

Here are some tips on aligning file names across R/ and tests/testthat/ in an existing package that did not necessarily follow this convention before.

This script generates a data frame of R/ and test files that can help you identify missed opportunities for pairing:

```
library(fs)
library(tidyverse)

bind_rows(
    tibble(
        type = "R",
        path = dir_ls("R/", regexp = "\\.[Rr]$"),
        name = as.character(path_ext_remove(path_file(path))),
    ),
    tibble(
        type = "test",
        path = dir_ls("tests/testthat/", regexp = "/test[^/]+\\.[Rr]$"),
    name = as.character(path_ext_remove(str_remove(path_file(path), "^test[-_]"))),
    )
    %>%
    pivot_wider(names_from = type, values_from = path) %>%
    print(n = Inf)
```

The rename\_files() function can also be helpful.

#### See Also

- The testing and R code chapters of R Packages.
- use\_test\_helper() to create a testthat helper file.

```
## Not run:
# create a new .R file below R/
use_r("coolstuff")

# if `R/coolstuff.R` is active in a supported IDE, you can now do:
use_test()

# if `tests/testthat/test-coolstuff.R` is active in a supported IDE, you can
# return to `R/coolstuff.R` with:
use_r()

## End(Not run)
```

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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

Either a string giving a file name (without directory) or NULL to take the name from the currently open file in RStudio.

use\_readme\_rmd

Create README files

#### **Description**

Creates skeleton README files with possible stubs for

- a high-level description of the project/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

use\_release\_issue 61

push. An example workflow can be found in the examples/ directory here: https://github.com/r-lib/actions/.

If the current project is a Git repo, then use\_readme\_rmd() automatically configures a pre-commit hook that helps keep README.Rmd and README.md, synchronized. The hook creates friction if you try to commit when README.Rmd has been edited more recently than README.md. If this hook causes more problems than it solves for you, it is implemented in .git/hooks/pre-commit, which you can modify or even delete.

## 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 other markdown files section of R Packages.

## **Examples**

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

use\_release\_issue

Create a release checklist in a GitHub issue

## **Description**

When preparing to release a package to CRAN there are quite a few steps that need to be performed, and some of the steps can take multiple hours. This function creates a checklist in a GitHub issue to:

- Help you keep track of where you are in the process
- Feel a sense of satisfaction as you progress towards final submission
- Help watchers of your package stay informed.

The checklist contains a generic set of steps that we've found to be helpful, based on the type of release ("patch", "minor", or "major"). You're encouraged to edit the issue to customize this list to meet your needs.

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#### **Customization:**

• If you want to consistently add extra bullets for every release, you can include your own custom bullets by providing an (unexported) release\_bullets() function that returns a character vector. (For historical reasons, release\_questions() is also supported).

• If you want to check additional packages in the revdep check process, provide an (unexported) release\_extra\_revdeps() function that returns a character vector. This is currently only supported for Posit internal check tooling.

#### 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:

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

## Usage

```
use_revdep()
```

```
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**

```
template_name The name as printed in the template menu.

template_dir Name of the directory the template will live in within inst/rmarkdown/templates.

If none is provided by the user, it will be created from template_name.

template_description

Sets the value of description in template.yml.

template_create_dir

Sets the value of create_dir in template.yml.
```

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

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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(overwrite = FALSE)
```

## **Arguments**

overwrite

Whether to overwrite an existing Roxygen field in DESCRIPTION with "list(markdown = TRUE)".

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\_<code>rstudio()!</code> Both <code>create\_\*()</code> functions can add RStudio Project infrastructure to a pre-existing project or package. use\_<code>rstudio()</code> 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"), reformat = TRUE)
```

# **Arguments**

line\_ending

Line ending

reformat

If TRUE, the .Rproj is setup with common options that reformat files on save: adding a trailing newline, trimming trailing whitespace, and setting the line-ending. This is best practice for new projects.

If FALSE, these options are left unset, which is more appropriate when you're contributing to someone else's project that does not have its own .Rproj file.

use\_rstudio\_preferences

use\_rstudio\_preferences

Set global RStudio preferences

#### **Description**

This function allows you to set global RStudio preferences, achieving the same effect programmatically as clicking buttons in RStudio's Global Options. You can find a list of configurable properties at https://docs.posit.co/ide/server-pro/reference/session\_user\_settings.html.

#### Usage

```
use_rstudio_preferences(...)
```

#### **Arguments**

```
... <dynamic-dots> Property-value pairs.
```

#### Value

A named list of the previous values, invisibly.

use\_spell\_check

Use spell check

# **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

66 use\_standalone

use\_standalone

Use a standalone file from another repo

## **Description**

A "standalone" file implements a minimum set of functionality in such a way that it can be copied into another package. use\_standalone() makes it easy to get such a file into your own repo.

It always overwrites an existing standalone file of the same name, making it easy to update previously imported code.

#### Usage

```
use_standalone(repo_spec, file = NULL, ref = NULL, host = NULL)
```

## **Arguments**

file

ref

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"

Name of standalone file. The standalone- prefix and file extension are op-

tional. If omitted, will allow you to choose from the standalone files offered by

that repo.

The name of a branch, tag, or commit. By default, the file at path will be

copied from its current state in the repo's default branch. This is extracted from

repo\_spec when user provides a URL.

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

is a URL, host is extracted from that.

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.

# Supported fields

A standalone file has YAML frontmatter that provides additional information, such as where the file originates from and when it was last updated. Here is an example:

---

repo: r-lib/rlang

file: standalone-types-check.R

last-updated: 2023-03-07

license: https://unlicense.org
dependencies: standalone-obj-type.R

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```
imports: rlang (>= 1.1.0)
```

Two of these fields are consulted by use\_standalone():

• dependencies: A file or a list of files in the same repo that the standalone file depends on. These files are retrieved automatically by use\_standalone().

• imports: A package or list of packages that the standalone file depends on. A minimal version may be specified in parentheses, e.g. rlang (>= 1.0.0). These dependencies are passed to use\_package() to ensure they are included in the Imports: field of the DESCRIPTION file.

Note that lists are specified with standard YAML syntax, using square brackets, for example: imports: [rlang (>= 1.0.0), purrr].

# Examples

```
## Not run:
use_standalone("r-lib/rlang", file = "types-check")
use_standalone("r-lib/rlang", file = "types-check", ref = "standalone-dep")
## End(Not run)
```

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.

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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.

## **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/testing-basics.html

#### Usage

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

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## **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

https://testthat.r-lib.org/articles/parallel.html 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\_test\_helper

Create or edit a test helper file

# Description

This function creates (or opens) a test helper file, typically tests/testthat/helper.R. Test helper files are executed at the beginning of every automated test run and are also executed by load\_all(). A helper file is a great place to define test helper functions for use throughout your test suite, such as a custom expectation.

## Usage

```
use_test_helper(name = NULL, open = rlang::is_interactive())
```

#### **Arguments**

name Can be used to specify the optional "SLUG" in tests/testthat/helper-SLUG.R.

open Whether to open the file for interactive editing.

## See Also

- use\_test() to create a test file.
- The testthat vignette on special files vignette("special-files", package = "testthat").

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#### **Examples**

```
## Not run:
use_test_helper()
use_test_helper("mocks")
## 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()
```

```
## 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(ref = NULL)

create_tidy_package(path, copyright_holder = NULL)

use_tidy_description()

use_tidy_dependencies()

use_tidy_contributing()

use_tidy_support()

use_tidy_issue_template()

use_tidy_coc()

use_tidy_github()

use_tidy_style(strict = TRUE)

use_tidy_logo(geometry = "240x278", retina = TRUE)

use_tidy_upkeep_issue(last_upkeep = last_upkeep_year())
```

#### Arguments

ref

Desired Git reference, usually the name of a tag ("v2") or branch ("main"). Other possibilities include a commit SHA ("d1c516d") or "HEAD" (meaning "tip of remote's default branch"). If not specified, defaults to the latest published release of r-lib/actions (https://github.com/r-lib/actions/releases).

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.

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.

last\_upkeep Year of last upkeep. By default, the Config/usethis/last-upkeep field in

 $\ensuremath{\mathsf{DESCRIPTION}}$  is consulted for this, if it's defined. If there's no information on

the last upkeep, the issue will contain the full checklist.

#### 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. The build matrix also ensures R CMD check is run at least once on each of the three major operating systems (Linux, macOS, and Windows).
- 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.
   This is how the tidyverse team checks its packages, but it is overkill for less widely used packages. Consider using the more streamlined workflows set up by use\_github\_actions() or use\_github\_action\_check\_standard().
- 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\_dependencies(): sets up standard dependencies used by all tidyverse packages (except packages that are designed to be dependency free).
- 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\_github\_labels() calls use\_github\_labels() to implement tidyverse conventions around GitHub issue label names and colours.

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use\_tidy\_upkeep\_issue() creates an issue containing a checklist of actions to bring your
package up to current tidyverse standards. Also records the current date in the Config/usethis/last-upkeep
field in DESCRIPTION.

• use\_tidy\_logo() calls use\_logo() on the appropriate hex sticker PNG file at https://github.com/rstudio/hex-stickers.

```
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)
```

#### **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, specifying 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.

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## **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 learnr package. 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.

#### 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.

use\_upkeep\_issue 75

#### See Also

The learnr package documentation.

## **Examples**

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

use\_upkeep\_issue

Create an upkeep checklist in a GitHub issue

## **Description**

This opens an issue in your package repository with a checklist of tasks for regular maintenance of your package. This is a fairly opinionated list of tasks but we believe taking care of them will generally make your package better, easier to maintain, and more enjoyable for your users. Some of the tasks are meant to be performed only once (and once completed shouldn't show up in subsequent lists), and some should be reviewed periodically. The tidyverse team uses a similar function use\_tidy\_upkeep\_issue() for our annual package Spring Cleaning.

## Usage

```
use_upkeep_issue(year = NULL)
```

## **Arguments**

year

Year you are performing the upkeep, used in the issue title. Defaults to current year

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

76 use\_version

use\_version

Increment package version

# **Description**

usethis supports semantic versioning, which is described in more detail in the version section of R Packages. A version number breaks down like so:

```
<major>.<minor>.<patch> (released version)  
<major>.<minor>.<patch>.<dev> (dev version)
```

use\_version() increments the "Version" field in DESCRIPTION, adds a new heading to NEWS.md (if it exists), commits those changes (if package uses Git), and optionally pushes (if safe to do so). 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, push = FALSE)
use_dev_version(push = FALSE)
```

#### **Arguments**

which A string specifying which level to increment, one of: "major", "minor", "patch",

"dev". If NULL, user can choose interactively.

push If TRUE, also attempts to push the commits to the remote branch.

# See Also

The version section of R Packages.

```
## 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 77

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

#### **Arguments**

name

File name to use for new vignette. Should consist only of numbers, letters, \_ and -. Lower case is recommended. Can include the ".Rmd" or ".qmd" file extension, which also dictates whether to place an R Markdown or Quarto vignette. R Markdown (".Rmd") is the current default, but it is anticipated that Quarto (".qmd") will become the default in the future.

title

The title of the vignette. If not provided, a title is generated from name.

## 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.
- For \*.qmd, adds Quarto-related patterns to .gitignore and .Rbuildignore.

## See Also

- The vignettes chapter of R Packages
- The pkgdown vignette on Quarto: vignette("quarto", package = "pkgdown")
- The quarto (as in the R package) vignette on HTML vignettes: vignette("hello", package = "quarto")

```
## Not run:
use_vignette("how-to-do-stuff", "How to do stuff")
use_vignette("r-markdown-is-classic.Rmd", "R Markdown is classic")
use_vignette("quarto-is-cool.qmd", "Quarto is cool")
## End(Not run)
```

78 zip-utils

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\_I
- bit.ly, pos.it, or rstd.io shortlinks: "bit.ly/xxx-yyy-zzz", "pos.it/foofy" 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

Destination for the new folder. Defaults to the location stored in the global option usethis.destdir, if defined, or to the user's Desktop or similarly conspicuous place otherwise.

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 high-light the download destination. Workflow:
  - User executes, e.g., use\_course("bit.ly/xxx-yyy-zzz").

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 User is asked to notice and confirm the location of the new folder. Specify destdir or configure the "usethis.destdir" option to prevent this.

- 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.

```
## 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/main")
use_course("https://github.com/r-lib/rematch2/archive/main.zip")

## End(Not run)
```

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