

Package ‘usethis’

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Title Automate Package and Project Setup

Version 2.1.0

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.

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BugReports <https://github.com/r-lib/usethis/issues>

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R topics documented:

badges	3
browse-this	5
ci	6
create_from_github	8
create_package	10
edit	12
git-default-branch	13
github-token	15
github_actions	17
git_credentials	19
git_protocol	20
git_sitrep	21
git_vaccinate	22
issue-this	22
licenses	23
proj_activate	24
proj_sitrep	25
proj_utils	25
pull-requests	27
rename_files	31
rprofile-helper	31
use_addin	32
use_blank_slate	32
use_build_ignore	33
use_citation	33
use_code_of_conduct	34
use_coverage	34
use_cpp11	35
use_cran_comments	35
use_data	36
use_data_table	37
use_description	37
use_directory	39
use_git	39
use_github	40
use_github_file	42
use_github_labels	43
use_github_links	45
use_github_pages	46
use_github_release	47
use_git_config	48
use_git_hook	49
use_git_ignore	49
use_git_remote	50
use_import_from	51
use_jenkins	52

use_lifecycle	52
use_logo	53
use_make	53
use_namespace	54
use_news_md	54
use_package	55
use_package_doc	56
use_pipe	56
use_pkgdown	57
use_r	58
use_rcpp	58
use_readme_rmd	59
use_release_issue	60
use_revdep	61
use_rmarkdown_template	61
use_roxygen_md	62
use_rstudio	62
use_spell_check	63
use_template	63
use_testthat	64
use_tibble	65
use_tidy_github_actions	66
use_tidy_thanks	68
use_tutorial	69
use_version	70
use_vignette	71
zip-utils	72

Index**74**

badges	<i>README badges</i>
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Description

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

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)
```

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.

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>.
- `use_binder_badge()`: badge indicates that your repository can be launched in an executable environment on <https://mybinder.org/>

See Also

Functions that configure continuous integration, such as [use_github_actions\(\)](#), also create badges.

Examples

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

Description

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

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

Usage

```
browse_package(package = NULL)
```

```
browse_project()
```

```
browse_github(package = NULL)
```

```
browse_github_issues(package = NULL, number = NULL)
```

```
browse_github_pulls(package = NULL, number = NULL)
```

```
browse_github_actions(package = NULL)
```

```
browse_travis(package = NULL, ext = c("com", "org"))
```

```
browse_circleci(package = NULL)
```

```
browse_cran(package = NULL)
```

Arguments

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

Details

- `browse_package()`: Assembles a list of URLs and lets user choose one to visit in a web browser. In a non-interactive session, returns all discovered URLs.
- `browse_project()`: Thin wrapper around `browse_package()` that always targets the active usethis project.
- `browse_github()`: Visits a GitHub repository associated with the project. In the case of a fork, you might be asked to specify if you're interested in the source repo or your fork.
- `browse_github_issues()`: Visits the GitHub Issues index or one specific issue.
- `browse_github_pulls()`: Visits the GitHub Pull Request index or one specific pull request.
- `browse_travis()`: Visits the project's page on [Travis CI](#).
- `browse_circleci()`: Visits the project's page on [Circle CI](#).
- `browse_cran()`: Visits the package on CRAN, via the canonical URL.

Examples

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

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

 ci

Continuous integration setup and badges

Description

[Deprecated]

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

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

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

Usage

```
use_travis(browse = rlang::is_interactive(), ext = c("com", "org"))

use_travis_badge(ext = c("com", "org"), repo_spec = NULL)

use_appveyor(browse = rlang::is_interactive())

use_appveyor_badge(repo_spec = NULL)

use_gitlab_ci()

use_circleci(browse = rlang::is_interactive(), image = "rocker/verse:latest")

use_circleci_badge(repo_spec = NULL)
```

Arguments

browse	Open a browser window to enable automatic builds for the package.
ext	Which travis website to use. Defaults to "com" for https://www.travis-ci.com/ . Change to "org" for https://travis-ci.org .
repo_spec	Optional GitHub repo specification in this form: owner/repo. This can usually be inferred from the GitHub remotes of active project.
image	The Docker image to use for build. Must be available on DockerHub . The rocker/verse image includes TeXLive, pandoc, and the tidyverse packages. For a minimal image, try rocker/r-ver . To specify a version of R, change the tag from latest to the version you want, e.g. rocker/r-ver:3.5.3 .

use_travis()

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

use_travis_badge()

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

use_appveyor()

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

use_appveyor_badge()

Only adds the [AppVeyor](#) badge. Use for a project where AppVeyor is already configured.

use_gitlab_ci()

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

`use_circleci()`

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

`use_circleci_badge()`

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

`create_from_github` *Create a project from a GitHub repo*

Description

Creates a new local project and Git repository from a repo on GitHub, by either cloning or **fork-and-cloning**. In the fork-and-clone case, `create_from_github()` also does additional remote and branch setup, leaving you in the perfect position to make a pull request with `pr_init()`, one of several [functions that work pull requests](#).

`create_from_github()` works best when your GitHub credentials are discoverable. See below for more about authentication.

Usage

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

Arguments

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

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

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

destdir	The new folder is stored here. If NULL, defaults to user's Desktop or some other conspicuous place. You can also set a default location using the option <code>usethis.destdir</code> , e.g. <code>options(usethis.destdir = "a/good/dir")</code> , perhaps saved to your <code>.Rprofile</code> with <code>edit_r_profile()</code>
fork	If FALSE, we clone <code>repo_spec</code> . If TRUE, we fork <code>repo_spec</code> , clone that fork, and do additional set up favorable for future pull requests: <ul style="list-style-type: none"> • The source repo, <code>repo_spec</code>, is configured as the upstream remote, using the indicated protocol. • The local DEFAULT branch is set to track <code>upstream/DEFAULT</code>, where DEFAULT is typically <code>master</code> or <code>main</code>. It is also immediately pulled, to cover the case of a pre-existing, out-of-date fork. <p>If <code>fork = NA</code> (the default), we check your permissions on <code>repo_spec</code>. If you can push, we set <code>fork = FALSE</code>. If you cannot, we set <code>fork = TRUE</code>.</p>
rstudio	Initiate an RStudio Project ? Defaults to TRUE if in an RStudio session and project has no pre-existing <code>.Rproj</code> file. Defaults to FALSE otherwise (but note that the cloned repo may already be an RStudio Project, i.e. may already have a <code>.Rproj</code> file).
open	If TRUE, <code>activates</code> the new project: <ul style="list-style-type: none"> • If RStudio desktop, the package is opened in a new session. • If on RStudio server, the current RStudio project is activated. • Otherwise, the working directory and active project is changed.
protocol	One of "https" or "ssh"
host	GitHub host to target, passed to the <code>.api_url</code> argument of <code>gh::gh()</code> . If unspecified, <code>gh</code> defaults to "https://api.github.com", although <code>gh</code> 's default can be customised by setting the <code>GITHUB_API_URL</code> environment variable. For a hypothetical GitHub Enterprise instance, either "https://github.acme.com/api/v3" or "https://github.acme.com" is acceptable.
auth_token	[Deprecated] : No longer consulted now that <code>usethis</code> uses the <code>gert</code> package for Git operations, instead of <code>git2r</code> ; <code>gert</code> relies on the <code>credentials</code> package for auth. The API requests are now authorized with the token associated with the host, as retrieved by <code>gh::gh_token()</code> .
credentials	[Deprecated] : No longer consulted now that <code>usethis</code> uses the <code>gert</code> package for Git operations, instead of <code>git2r</code> ; <code>gert</code> relies on the <code>credentials</code> package for auth. The API requests are now authorized with the token associated with the host, as retrieved by <code>gh::gh_token()</code> .

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

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	<i>Create a package or project</i>
----------------	------------------------------------

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.
fields	A named list of fields to add to DESCRIPTION, potentially overriding default values. See use_description() for how you can set personalized defaults using package options.
rstudio	If TRUE, calls use_rstudio() to make the new package or project into an RStudio Project . If FALSE and a non-package project, a sentinel <code>.here</code> file is placed so that the directory can be recognized as a project by the here or rprojroot packages.
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: <ul style="list-style-type: none"> • If RStudio desktop, the package is opened in a new session. • If on RStudio server, the current RStudio project is activated. • Otherwise, the working directory and active project is changed.

Value

Path to the newly created project or package, invisibly.

See Also

[create_tidy_package\(\)](#) is a convenience function that extends [create_package\(\)](#) by immediately applying as many of the tidyverse development conventions as possible.

edit

Open configuration files

Description

- `edit_r_profile()` opens `.Rprofile`
- `edit_r_environ()` opens `.Renviron`
- `edit_r_makevars()` opens `.R/Makevars`
- `edit_git_config()` opens `.gitconfig` or `.git/config`
- `edit_git_ignore()` opens global (user-level) gitignore file and ensures its path is declared in your global Git config.
- `edit_rstudio_snippets()` opens RStudio's snippet config for the given type.
- `edit_rstudio_prefs()` opens RStudio's preference file.

Usage

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

edit_r_environ(scope = c("user", "project"))

edit_r_buildignore()

edit_r_makevars(scope = c("user", "project"))

edit_rstudio_snippets(
  type = c("r", "markdown", "c_cpp", "css", "html", "java", "javascript", "python",
    "sql", "stan", "tex")
)

edit_rstudio_prefs()

edit_git_config(scope = c("user", "project"))

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

Arguments

<code>scope</code>	Edit globally for the current user , or locally for the current project
<code>type</code>	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.

<code>git-default-branch</code>	<i>Get or set the default Git branch</i>
---------------------------------	--

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.

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
- `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 <https://happygitwithr.com/common-remote-setups.html> 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 <https://happygitwithr.com/common-remote-setups.html> 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()

# 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.
host	GitHub host to target, passed to the <code>.api_url</code> argument of <code>gh::gh()</code> . If unspecified, <code>gh</code> defaults to "https://api.github.com", although <code>gh</code> 's default can be customised by setting the <code>GITHUB_API_URL</code> 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)
```

github_actions *GitHub Actions setup*

Description

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

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

This family of functions

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

Usage

```
use_github_actions()

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

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

use_github_action_check_release(
  save_as = "R-CMD-check.yaml",
  ignore = TRUE,
  open = FALSE
)
```

```

use_github_action_check_standard(
  save_as = "R-CMD-check.yaml",
  ignore = TRUE,
  open = FALSE
)

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

```

Arguments

name	For <code>use_github_action()</code> : Name of one of the example workflows from https://github.com/r-lib/actions/tree/v1/examples , with or without a <code>.yaml</code> extension, e.g. "pkgdown" or "test-coverage.yaml". For <code>use_github_actions_badge()</code> : Specifies the workflow whose status the badge will report. Usually, this is the name keyword that appears in the workflow <code>.yaml</code> file.
repo_spec	Optional GitHub repo specification in this form: owner/repo. This can usually be inferred from the GitHub remotes of active project.
url	The full URL to a <code>.yaml</code> file on GitHub.
save_as	Name of the local workflow file. Defaults to <code>name</code> or <code>fs::path_file(url)</code> for <code>use_github_action()</code> . Do not specify any other part of the path; the parent directory will always be <code>.github/workflows</code> , within the active project.
readme	The full URL to a README file that provides more details about the workflow. Ignored when <code>url</code> is <code>NULL</code> .
ignore	Should the newly created file be added to <code>.Rbuildignore</code> ?
open	Open the newly created file for editing? Happens in RStudio, if applicable, or via <code>utils::file.edit()</code> otherwise.

`use_github_actions()`

Configures a basic R CMD check workflow on GitHub Actions by adding a standard `R-CMD-check.yaml` file to the `.github/workflows` directory of the active project. This is actually just an alias for `use_github_action_check_release()`.

`use_github_actions_badge()`

Generates a GitHub Actions badge and that's all. It does not configure a workflow. This exists mostly for internal use in the other functions documented here.

`use_github_action()`

Configures an individual, specific **GitHub Actions** workflow, either one of the examples from [r-lib/actions/examples](https://github.com/r-lib/actions/tree/v1/examples) or a custom workflow given by the `url` parameter.

Used internally to power all the other GitHub Actions functions, but it can also be called directly by the user.

`use_github_action_check_release()`

This entry-level, bare-minimum workflow installs the latest release of R (on a current distribution of Linux) and runs R CMD check via the `rcmdcheck` package.

`use_github_action_check_standard()`

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

`use_github_action_pr_commands()`

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

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

See Also

- [use_github_file\(\)](#) for more about url format and parsing.
- [use_tidy_github_actions\(\)](#) for the standard GitHub Actions used for tidyverse packages.

Examples

```
## Not run:
use_github_actions()

use_github_action_check_standard()

use_github_action("pkgdown")

## End(Not run)
```

git_credentials

Produce or register credentials for git2r

Description

[Deprecated]

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

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

If you use the HTTPS protocol (which we recommend), a GitHub personal access token will satisfy all auth needs, for both Git and the GitHub API, and is therefore the easiest approach to get working. See [gh_token_help\(\)](#) for more.

Usage

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

```
use_git_credentials(credentials = deprecated())
```

Arguments

protocol Deprecated.

auth_token Deprecated.

credentials Deprecated.

Value

These functions raise a warning and return an invisible NULL.

git_protocol	<i>See or set the default Git protocol</i>
--------------	--

Description

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

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

Two helper functions are available:

- `git_protocol()` reveals the protocol "in force". As of usethis v2.0.0, this defaults to "https". You can change this for the duration of the R session with `use_git_protocol()`. Change the default for all R sessions with code like this in your `.Rprofile` (easily editable via [edit_r_profile\(\)](#)):

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

- `use_git_protocol()` sets the Git protocol for the current R session

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

Usage

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

Arguments

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

Value

The protocol, either "https" or "ssh"

Examples

```
## Not run:
git_protocol()

use_git_protocol("ssh")
git_protocol()

use_git_protocol("https")
git_protocol()

## End(Not run)
```

git_sitrep

Git/GitHub sitrep

Description

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

Usage

```
git_sitrep()
```

Examples

```
## Not run:
git_sitrep()

## End(Not run)
```

git_vaccinate	<i>Vaccinate your global gitignore file</i>
---------------	---

Description

Adds `.DS_Store`, `.Rproj.user`, `.Rdata`, `.Rhistory`, and `.httr-oauth` to your global (a.k.a. user-level) `.gitignore`. This is good practice as it decreases the chance that you will accidentally leak credentials to GitHub. `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	<i>Helpers for GitHub issues</i>
------------	----------------------------------

Description

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

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

Usage

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

```
issue_reprex_needed(number)
```

Arguments

number	Issue number
reprex	Does the issue also need a reprex?

Saved replies

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

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

Examples

```
## Not run:
issue_close_community(12, replex = TRUE)

issue_replex_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.

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*.

proj_activate	<i>Activate a project</i>
---------------	---------------------------

Description

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

Usage

```
proj_activate(path)
```

Arguments

path Project directory

Value

Single logical value indicating if current session is modified.

`proj_sitrep`*Report working directory and usethis/RStudio project*

Description

`proj_sitrep()` reports

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

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

Usage

```
proj_sitrep()
```

Value

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

See Also

Other project functions: [proj_utils](#)

Examples

```
proj_sitrep()
```

`proj_utils`*Utility functions for the active project*

Description

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

Usage

```
proj_get()

proj_set(path = ".", force = FALSE)

proj_path(..., ext = "")

with_project(
  path = ".",
  code,
  force = FALSE,
  setwd = TRUE,
  quiet = getOption("usethis.quiet", default = FALSE)
)

local_project(
  path = ".",
  force = FALSE,
  setwd = TRUE,
  quiet = getOption("usethis.quiet", default = FALSE),
  .local_envir = parent.frame()
)
```

Arguments

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

Details

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

Functions

- `proj_get`: Retrieves the active project and, if necessary, attempts to set it in the first place.
- `proj_set`: Sets the active project.
- `proj_path`: Builds a path within the active project returned by `proj_get()`. Thin wrapper around `fs::path()`.
- `with_project`: Runs code with a temporary active project and, optionally, working directory. It is an example of the `with_*`() functions in `withr`.
- `local_project`: Sets an active project and, optionally, working directory until the current execution environment goes out of scope, e.g. the end of the current function or test. It is an example of the `local_*`() functions in `withr`.

See Also

Other project functions: `proj_sitrep()`

Examples

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

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

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

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

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

## End(Not run)
```

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()
```

Arguments

<code>branch</code>	Name of a new or existing local branch. If creating a new branch, note this should usually consist of lower case letters, numbers, and <code>-</code> .
<code>number</code>	Number of PR.
<code>target</code>	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. <code>origin</code>) instead of those against the source repo (i.e. <code>upstream</code> , which is the default).

Git/GitHub Authentication

Many of these 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](#)

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.

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

Examples

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

rename_files	<i>Automatically rename paired R/ and test/ files</i>
--------------	---

Description

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

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

Usage

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

Arguments

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

rprofile-helper	<i>Helpers to make useful changes to .Rprofile</i>
-----------------	--

Description

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

- use_devtools(): makes devtools available in interactive sessions.
- use_usethis(): makes usethis available in interactive sessions.
- use_reprex(): makes reprex available in interactive sessions.
- use_conflicted(): makes conflicted available in interactive sessions.
- use_partial_warnings(): warns on partial matches.

Usage

```

use_conflicted()

use_reprex()

use_usethis()

use_devtools()

use_partial_warnings()

```

use_addin	<i>Add minimal RStudio Addin binding</i>
-----------	--

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 <code>utils::file.edit()</code> otherwise.

use_blank_slate	<i>Don't save/load user workspace between sessions</i>
-----------------	--

Description

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

Usage

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

Arguments

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

use_build_ignore	<i>Add files to .Rbuildignore</i>
------------------	-----------------------------------

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 <code>.</code> to <code>\.</code> and surround with <code>^</code> and <code>\$</code> .

Examples

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

use_citation	<i>Create a CITATION template</i>
--------------	-----------------------------------

Description

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

Usage

```
use_citation()
```

use_code_of_conduct *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: https://www.contributor-covenant.org/version/2/0/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 <code>use_directory()</code> . Default is to locate at top-level, but <code>.github/</code> is also common.

Details

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

use_coverage *Test coverage*

Description

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

Usage

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

use_covr_ignore(files)
```

Arguments

type	Which web service to use.
repo_spec	Optional GitHub repo specification in this form: owner/repo. This can usually be inferred from the GitHub remotes of active project.
files	Character vector of file globs.

use_cpp11 *Use C++ via the cpp11 package*

Description

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

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

Usage

```
use_cpp11()
```

use_cran_comments *CRAN submission comments*

Description

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

Usage

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

Arguments

open	Open the newly created file for editing? Happens in RStudio, if applicable, or via <code>utils::file.edit()</code> otherwise.
------	---

use_data

*Create package data***Description**

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

Usage

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

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

Arguments

...	Unquoted names of existing objects to save.
internal	If FALSE, saves each object in its own .rda file in the data/ directory. These data files bypass the usual export mechanism and are available whenever the package is loaded (or via data() if LazyData is not true). If TRUE, stores all objects in a single R/sysdata.rda file. Objects in this file follow the usual export rules. Note that this means they will be exported if you are using the common exportPattern() rule which exports all objects except for those that start with ..
overwrite	By default, use_data() will not overwrite existing files. If you really want to do so, set this to TRUE.
compress	Choose the type of compression used by save(). Should be one of "gzip", "bzip2", or "xz".
version	The serialization format version to use. The default, 2, was the default format from R 1.4.0 to 3.5.3. Version 3 became the default from R 3.6.0 and can only be read by R versions 3.5.0 and higher.
name	Name of the dataset to be prepared for inclusion in the package.
open	Open the newly created file for editing? Happens in RStudio, if applicable, or via utils::file.edit() otherwise.

See Also

The [data chapter](#) of [R Packages](#).

Examples

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

use_data(x, y) # For external use
use_data(x, y, internal = TRUE) # For internal use

## End(Not run)
## Not run:
use_data_raw("daisy")

## End(Not run)
```

use_data_table	<i>Prepare for importing data.table</i>
----------------	---

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 to get data.tables working with your package. See the [importing data.table](#) vignette for other strategies. In addition to importing these function, 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	<i>Create or modify a DESCRIPTION file</i>
-----------------	--

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:

- 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` = 'person("Jane", "Doe", email = "jane@example.com",
                        role = c("aut", "cre"),
                        comment = c(ORCID = "YOUR-ORCID-ID"))',
    License = "MIT + file LICENSE",
    Language = "es"
  )
)
```

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. See <code>use_description()</code> for how you can set personalized defaults using package options.
check_name	Whether to check if the name is valid for CRAN and throw an error if not.
roxygen	If TRUE, sets RoxygenNote to current roxygen2 version
package	Package name

See Also

The [description chapter](#) of *R Packages*

Examples

```
## Not run:
use_description()

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

use_description_defaults()

## End(Not run)
```

use_directory	<i>Use a directory</i>
---------------	------------------------

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	<i>Initialise a git repository</i>
---------	------------------------------------

Description

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

Usage

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

Arguments

message	Message to use for first commit.
---------	----------------------------------

See Also

Other git helpers: [use_git_config\(\)](#), [use_git_hook\(\)](#), [use_git_ignore\(\)](#)

Examples

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

use_github

Connect a local repo with GitHub

Description

use_github() takes a local project and:

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

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

Usage

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

Arguments

organisation If supplied, the repo will be created under this organisation, instead of the login associated with the GitHub token discovered for this host. The user's role and the token's scopes must be such that you have permission to create repositories in this organisation.

private	If TRUE, creates a private repository.
visibility	Only relevant for organisation-owned repos associated with certain GitHub Enterprise 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 <code>.api_url</code> argument of <code>gh::gh()</code> . If unspecified, gh defaults to "https://api.github.com", although gh's default can be customised by setting the <code>GITHUB_API_URL</code> environment variable. For a hypothetical GitHub Enterprise instance, either "https://github.acme.com/api/v3" or "https://github.acme.com" is acceptable.
auth_token, credentials	[Deprecated]: No longer consulted now that usethis uses the gert package for Git operations, instead of git2r; gert relies on the credentials package for auth. The API requests are now authorized with the token associated with the host, as retrieved by <code>gh::gh_token()</code> .

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. Useshis 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](#)

Examples

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

```

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

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

## End(Not run)

```

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.

Usage

```

use_github_file(
  repo_spec,
  path = NULL,
  save_as = NULL,
  ref = NULL,
  ignore = FALSE,
  open = 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"
- A raw URL, such as "https://raw.githubusercontent.com/OWNER/REPO/REF/path/to/some/f"

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

path 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 <code>utils::file.edit()</code> otherwise.
host	GitHub host to target, passed to the <code>.api_url</code> argument of <code>gh::gh()</code> . If unspecified, <code>gh</code> defaults to "https://api.github.com", although <code>gh</code> 's default can be customised by setting the <code>GITHUB_API_URL</code> 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.

Examples

```
## Not run:
use_github_file(
  "https://github.com/r-lib/actions/blob/v1/examples/check-standard.yaml"
)

use_github_file(
  "r-lib/actions",
  path = "examples/check-standard.yaml",
  ref = "v1",
  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()`.

Usage

```
use_github_labels(
  repo_spec = deprecated(),
  labels = character(),
  rename = character(),
  colours = character(),
```

```

  descriptions = character(),
  delete_default = FALSE,
  host = deprecated(),
  auth_token = deprecated()
)

use_tidy_github_labels()

tidy_labels()

tidy_labels_rename()

tidy_label_colours()

tidy_label_descriptions()

```

Arguments

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

labels A character vector giving labels to add.

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

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

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

Label usage

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

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

Examples

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

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

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

## End(Not run)
```

use_github_links

Use GitHub links in URL and BugReports

Description

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

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

Usage

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

Arguments

host, auth_token

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

overwrite By default, `use_github_links()` will not overwrite existing fields. Set to TRUE to overwrite existing links.

Examples

```
## Not run:
use_github_links()

## End(Not run)
```

use_github_pages *Configure a GitHub Pages site*

Description

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

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

Usage

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

Arguments

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

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

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/free-pro-team@latest/github/working-with-github-pages>
- <https://docs.github.com/en/free-pro-team@latest/rest/reference/repos#pages>

Examples

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

use_github_release *Draft a GitHub release*

Description

Creates a **draft** GitHub release for the current package. Once you are satisfied that it is correct, you will need to publish the release from GitHub. The key pieces of info are which commit / SHA to tag, the associated package version, and the relevant NEWS entries.

If you use devtools::release() or devtools::submit_cran() to submit to CRAN, information about the submitted state is captured in a CRAN-SUBMISSION or CRAN-RELEASE file. use_github_release() uses this info to populate the draft GitHub release and, after success, deletes the CRAN-SUBMISSION or CRAN-RELEASE file.

In the absence of such a file, we must fall back to assuming the current state (SHA of HEAD, package version, NEWS) is the submitted state.

Usage

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

Arguments

host, auth_token

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

use_git_config	<i>Configure Git</i>
----------------	----------------------

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 <code><dynamic-dots></code> .

Value

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

See Also

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

Examples

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

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

## End(Not run)
```

use_git_hook	<i>Add a git hook</i>
--------------	-----------------------

Description

Sets up a git hook using specified script. Creates 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_config\(\)](#), [use_git_ignore\(\)](#), [use_git\(\)](#)

use_git_ignore	<i>Tell Git to ignore files</i>
----------------	---------------------------------

Description

Tell Git to ignore files

Usage

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

Arguments

ignores	Character vector of ignores, specified as file globs.
directory	Directory relative to active project to set ignores

See Also

Other git helpers: [use_git_config\(\)](#), [use_git_hook\(\)](#), [use_git\(\)](#)

use_git_remote *Configure and report Git remotes*

Description

Two helpers are available:

- use_git_remote() sets the remote associated with name to url.
- git_remotes() reports the configured remotes, similar to git remote -v.

Usage

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

```
git_remotes()
```

Arguments

name	A string giving the short name of a remote.
url	A string giving the url of a remote.
overwrite	Logical. Controls whether an existing remote can be modified.

Value

Named list of Git remotes.

Examples

```
## Not run:
# see current remotes
git_remotes()

# add new remote named 'foo', a la `git remote add <name> <url>`
use_git_remote(name = "foo", url = "https://github.com/<OWNER>/<REPO>.git")

# remove existing 'foo' remote, a la `git remote remove <name>`
use_git_remote(name = "foo", url = NULL, overwrite = TRUE)

# change URL of remote 'foo', a la `git remote set-url <name> <newurl>`
use_git_remote(
  name = "foo",
  url = "https://github.com/<OWNER>/<REPO>.git",
  overwrite = TRUE
)

# Scenario: Fix remotes when you cloned someone's repo, but you should
# have fork-and-cloned (in order to make a pull request).
```

```

# Store origin = main repo's URL, e.g., "git@github.com:<OWNER>/<REPO>.git"
upstream_url <- git_remotes()[["origin"]]

# 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	<i>Import a function from another package</i>
-----------------	---

Description

use_import_from() imports a function from another package by adding the roxygen2 @import-From tag to the package-level documentation (which can be created with [use_package_doc\(\)](#)). Importing 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("usethis", "ui_todo")  
  
## End(Not run)
```

use_jenkins	<i>Create Jenkinsfile for Jenkins CI Pipelines</i>
-------------	--

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	<i>Use lifecycle badges</i>
---------------	-----------------------------

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	<i>Use a package logo</i>
----------	---------------------------

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

<code>img</code>	The path to an existing image file
<code>geometry</code>	a <code>magick::geometry</code> string specifying size. The default assumes that you have a hex logo using spec from http://hexb.in/sticker.html .
<code>retina</code>	TRUE, the default, scales the image on the README, assuming that geometry is double the desired size.

Examples

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

use_make	<i>Create Makefile</i>
----------	------------------------

Description

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

Usage

```
use_make()
```

See Also

The [documentation for GNU Make](#).

use_namespace	<i>Use a basic NAMESPACE</i>
---------------	------------------------------

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

<code>roxygen</code>	Do you plan to manage <code>NAMESPACE</code> with <code>roxygen2</code> ?
----------------------	---

See Also

The [namespace chapter](#) of [R Packages](#).

use_news_md	<i>Create a simple NEWS.md</i>
-------------	--------------------------------

Description

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

Usage

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

Arguments

<code>open</code>	Open the newly created file for editing? Happens in RStudio, if applicable, or via <code>utils::file.edit()</code> otherwise.
-------------------	---

See Also

The [important files section](#) of [R Packages](#).

use_package	<i>Depend on another package</i>
-------------	----------------------------------

Description

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

Usage

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

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

Arguments

package	Name of package to depend on.
type	Type of dependency: must be one of "Imports", "Depends", "Suggests", "Enhances", or "LinkingTo" (or unique abbreviation). Matching is case insensitive.
min_version	Optionally, supply a minimum version for the package. Set to TRUE to use the currently installed version.
remote	By default, an OWNER/REPO GitHub remote is inserted. Optionally, you can supply a character string to specify the remote, e.g. "gitlab::jimhester/covr", using any syntax supported by the remotes package .

See Also

The [dependencies section](#) of [R Packages](#).

Examples

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

use_package_doc *Package-level documentation*

Description

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

Usage

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

Arguments

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

See Also

The [documentation chapter of R Packages](#)

use_pipe *Use magrittr's pipe in your package*

Description

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

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

Usage

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

Arguments

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

Examples

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

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:
 - (first, it calls `use_pkgdown()`)
 - `use_github_pages()` prepares to publish the `pkgdown` site from the `github-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.

`use_pkgdown_travis()` is deprecated; we no longer recommend that you use Travis-CI.

Usage

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

```
use_pkgdown_github_pages()
```

```
use_pkgdown_travis()
```

Arguments

<code>config_file</code>	Path to the <code>pkgdown</code> yaml config file
<code>destdir</code>	Target directory for <code>pkgdown</code> docs

See Also

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

 use_r

Create or edit R or test files

Description

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

Usage

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

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

Arguments

name	Either a name without extension, or NULL to create the paired file based on currently open file in the script editor. If the R file is open, use_test() will create/open the corresponding test file; if the test file is open, use_r() will create/open the corresponding R file.
open	Whether to open the file for interactive editing.

See Also

The [testing](#) and [R code](#) chapters of [R Packages](#).

 use_rcpp

Use C, C++, RcppArmadillo, or RcppEigen

Description

Adds infrastructure commonly needed when using compiled code:

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

Usage

```
use_rcpp(name = NULL)

use_rcpp_armadillo(name = NULL)

use_rcpp_eigen(name = NULL)

use_c(name = NULL)
```

Arguments

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

Details

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

use_readme_rmd	<i>Create README files</i>
----------------	----------------------------

Description

Creates skeleton README files with sections for

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

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

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

Usage

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

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

Arguments

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

See Also

The [important files section](#) of [R Packages](#).

Examples

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

## End(Not run)
```

use_release_issue	<i>Create a release checklist in a GitHub issue</i>
-------------------	---

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

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	<i>Reverse dependency checks</i>
------------	----------------------------------

Description

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

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

Usage

```
use_revdep()
```

use_rmarkdown_template	<i>Add an RMarkdown Template</i>
------------------------	----------------------------------

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.

Examples

```
## Not run:
use_rmarkdown_template()

## End(Not run)
```

use_roxygen_md	<i>Use roxygen2 with markdown</i>
----------------	-----------------------------------

Description

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

Usage

```
use_roxygen_md()
```

use_rstudio	<i>Add RStudio Project infrastructure</i>
-------------	---

Description

It is likely that you want to use `create_project()` or `create_package()` instead of `use_rstudio()`! Both `create_*`() functions can add RStudio Project infrastructure to a pre-existing project or package. `use_rstudio()` is mostly for internal use or for those creating a usethis-like package for their organization. It does the following in the current project, often after executing `proj_set(..., force = TRUE)`:

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

Usage

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

Arguments

line_ending	Line ending
-------------	-------------

use_spell_check	<i>Use spell check</i>
-----------------	------------------------

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

use_template	<i>Use a usethis-style template</i>
--------------	-------------------------------------

Description

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

Usage

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

Arguments

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

Usage

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

Arguments

edition	testthat edition to use. Defaults to the latest edition, i.e. the major version number of the currently installed testthat.
parallel	Should tests be run in parallel? This feature appeared in testthat 3.0.0; see 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_tibble

Prepare to return a tibble

Description**[Questioning]**

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

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

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

Usage

```
use_tibble()
```

Examples

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

```
use_tidy_github_actions  
  Helpers for tidyverse development
```

Description

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

Usage

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

Arguments

year	Approximate year when you last touched this package. If NULL, the default, will give you a full set of actions to perform.
path	A path. If it exists, it is used. If it does not exist, it is created, provided that the parent path exists.

copyright_holder	Name of the copyright holder or holders. This defaults to "package name authors"; you should only change this if you use a CLA to assign copyright to a single entity.
strict	Boolean indicating whether or not a strict version of styling should be applied. See styler::tidyverse_style() for details.

Details

- `use_tidy_github_actions()`: Sets up the following workflows using **GitHub Actions**:
 - Run R CMD check on the current release, devel, and four previous versions of R. 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 tidyverse 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.
- `use_tidy_upkeep_issue()` creates an issue containing a checklist of actions to bring your package up to current tidyverse standards.

`use_tidy_style()`

Uses the **styler 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 <https://www.tidyverse.org/blog/>. 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

<code>repo_spec</code>	Optional GitHub repo specification in any form accepted for the <code>repo_spec</code> argument of <code>create_from_github()</code> (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.
<code>from</code> , <code>to</code>	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 <code>from = NULL</code> , <code>to = NULL</code> , we set <code>from</code> to the timestamp of the most recent (GitHub) release. Otherwise, <code>NULL</code> means "no bound".

Value

A character vector of GitHub usernames, invisibly.

Examples

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

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

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

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

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

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

## End(Not run)
```

use_tutorial	<i>Create a learnr tutorial</i>
--------------	---------------------------------

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

<code>name</code>	Base for file name to use for new <code>.Rmd</code> tutorial. Should consist only of numbers, letters, <code>_</code> and <code>-</code> . We recommend using lower case.
<code>title</code>	The human-facing title of the tutorial.
<code>open</code>	Open the newly created file for editing? Happens in RStudio, if applicable, or via <code>utils::file.edit()</code> otherwise.

See Also

The [learnr package documentation](#).

Examples

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

## End(Not run)
```

use_version	<i>Increment package version</i>
-------------	----------------------------------

Description

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

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

Usage

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

```
use_dev_version()
```

Arguments

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

See Also

The [version section](#) of [R Packages](#).

Examples

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

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

## End(Not run)
```

use_vignette	<i>Create a vignette or article</i>
--------------	-------------------------------------

Description

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

Usage

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

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

Arguments

name	Base for file name to use for new vignette. Should consist only of numbers, letters, _ and -. Lower case is recommended.
title	The title of the vignette.

General setup

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

See Also

The [vignettes chapter](#) of [R Packages](#).

Examples

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

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	<p>Link to a ZIP file containing the materials. To reduce the chance of typos in live settings, these shorter forms are accepted:</p> <ul style="list-style-type: none"> * GitHub repo spec: "OWNER/REPO". Equivalent to <code>`https://github.com/OWNER/REPO/DEFAULT_BRANCH.zip`</code>. * bit.ly or rstd.io shortlinks: "bit.ly/xxx-yyy-zzz" or "rstd.io/foofy". The instructor must then arrange for the shortlink to point to a valid download URL for the target ZIP file. The helper <code>[create_download_url()]</code> helps to create such URLs for GitHub, DropBox, and Google Drive.
destdir	<p>The new folder is stored here. If NULL, defaults to user's Desktop or some other conspicuous place. You can also set a default location using the option <code>usethis.destdir</code>, e.g. <code>options(usethis.destdir = "a/good/dir")</code>, perhaps saved to your <code>.Rprofile</code> with <code>edit_r_profile()</code></p>
cleanup	<p>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).</p>

Value

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

Functions

- `use_course`: Designed with live workshops in mind. Includes intentional friction to highlight the download destination. Workflow:
 - User executes, e.g., `use_course("bit.ly/xxx-yyy-zzz")`.
 - User is asked to notice and confirm the location of the new folder. Specify `destdir` or configure the `"usethis.destdir"` option to prevent this.
 - User is asked if they'd like to delete the ZIP file.
 - If new folder contains an `.Rproj` file, a new instance of RStudio is launched. Otherwise, the folder is opened in the file manager, e.g. Finder or File Explorer.
- `use_zip`: More useful in day-to-day work. Downloads in current working directory, by default, and allows `cleanup` behaviour to be specified.

Examples

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

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

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

## End(Not run)
```

Index

* git helpers

- use_git, 39
- use_git_config, 48
- use_git_hook, 49
- use_git_ignore, 49

* project functions

- proj_sitrep, 25
- proj_utils, 25

activates, 9, 11

active project, 24

badges, 3

browse-this, 5

browse_circleci (browse-this), 5

browse_cran (browse-this), 5

browse_github (browse-this), 5

browse_github_actions (browse-this), 5

browse_github_issues (browse-this), 5

browse_github_pulls (browse-this), 5

browse_github_pulls(), 30

browse_package (browse-this), 5

browse_project (browse-this), 5

browse_travis (browse-this), 5

ci, 6

create_from_github, 8

create_from_github(), 68

create_github_token (github-token), 15

create_package, 10

create_package(), 37, 62

create_project (create_package), 10

create_project(), 62

create_tidy_package

(use_tidy_github_actions), 66

create_tidy_package(), 11

data(), 36

edit, 12

edit_git_config (edit), 12

edit_git_ignore (edit), 12

edit_r_buildignore (edit), 12

edit_r_environ (edit), 12

edit_r_makevars (edit), 12

edit_r_profile (edit), 12

edit_r_profile(), 9, 20, 38, 72

edit_rstudio_prefs (edit), 12

edit_rstudio_snippets (edit), 12

fs::path(), 27

fs::path_home(), 13

functions that work pull requests, 8

gert::git_config(), 48

gert::git_config_global_set(), 48

gert::git_config_set(), 48

gh::gh(), 9, 16, 41, 43

gh::gh_token(), 9, 41

gh::gh_whoami(), 16

gh_token_help (github-token), 15

gh_token_help(), 10, 20, 29, 41

git-default-branch, 13

git_credentials, 19

git_default_branch

(git-default-branch), 13

git_default_branch(), 28

git_default_branch_configure

(git-default-branch), 13

git_default_branch_rediscover

(git-default-branch), 13

git_default_branch_rename

(git-default-branch), 13

git_protocol, 20

git_protocol(), 10

git_remotes (use_git_remote), 50

git_sitrep, 21

git_vaccinate, 22

git_vaccinate(), 21

github-token, 15

github_actions, 17

- issue-this, [22](#)
- issue_close_community (issue-this), [22](#)
- issue_reprex_needed (issue-this), [22](#)
- licenses, [23](#)
- lifecycle::deprecated(), [52](#)
- local_project (proj_utils), [25](#)
- magick::geometry, [53](#)
- pkgload::load_all(), [51](#)
- pr_fetch (pull-requests), [27](#)
- pr_finish (pull-requests), [27](#)
- pr_forget (pull-requests), [27](#)
- pr_init (pull-requests), [27](#)
- pr_init(), [8](#)
- pr_merge_main (pull-requests), [27](#)
- pr_pause (pull-requests), [27](#)
- pr_pull (pull-requests), [27](#)
- pr_push (pull-requests), [27](#)
- pr_resume (pull-requests), [27](#)
- pr_view (pull-requests), [27](#)
- proj_activate, [24](#)
- proj_get (proj_utils), [25](#)
- proj_path (proj_utils), [25](#)
- proj_set (proj_utils), [25](#)
- proj_sitrep, [25](#), [27](#)
- proj_utils, [25](#), [25](#)
- pull-requests, [27](#)
- rename_files, [31](#)
- reverse dependency checks, [35](#)
- rprofile-helper, [31](#)
- save(), [36](#)
- spelling, [63](#)
- spelling::wordlist, [63](#)
- styler::tidyverse_style(), [67](#)
- tidy_label_colours (use_github_labels), [43](#)
- tidy_label_descriptions (use_github_labels), [43](#)
- tidy_labels (use_github_labels), [43](#)
- tidy_labels_rename (use_github_labels), [43](#)
- tidyverse (use_tidy_github_actions), [66](#)
- use_addin, [32](#)
- use_agpl3_license (licenses), [23](#)
- use_agpl_license (licenses), [23](#)
- use_apache_license (licenses), [23](#)
- use_apl2_license (licenses), [23](#)
- use_appveyor (ci), [6](#)
- use_appveyor_badge (ci), [6](#)
- use_article (use_vignette), [71](#)
- use_badge (badges), [3](#)
- use_binder_badge (badges), [3](#)
- use_bioc_badge (badges), [3](#)
- use_blank_slate, [32](#)
- use_build_ignore, [33](#)
- use_c (use_rcpp), [58](#)
- use_cc0_license (licenses), [23](#)
- use_ccby_license (licenses), [23](#)
- use_circleci (ci), [6](#)
- use_circleci_badge (ci), [6](#)
- use_citation, [33](#)
- use_code_of_conduct, [34](#)
- use_conflicted (rprofile-helper), [31](#)
- use_course (zip-utils), [72](#)
- use_course(), [10](#)
- use_course_details, [72](#)
- use_coverage, [34](#)
- use_covr_ignore (use_coverage), [34](#)
- use_cpp11, [35](#)
- use_cran_badge (badges), [3](#)
- use_cran_comments, [35](#)
- use_data, [36](#)
- use_data(), [39](#)
- use_data_raw (use_data), [36](#)
- use_data_table, [37](#)
- use_description, [37](#)
- use_description(), [11](#), [37](#), [38](#)
- use_description_defaults (use_description), [37](#)
- use_dev_package (use_package), [55](#)
- use_dev_version (use_version), [70](#)
- use_devtools (rprofile-helper), [31](#)
- use_directory, [39](#)
- use_directory(), [34](#)
- use_git, [39](#), [48](#), [49](#)
- use_git_config, [39](#), [48](#), [49](#)
- use_git_credentials (git_credentials), [19](#)
- use_git_hook, [39](#), [48](#), [49](#), [49](#)
- use_git_ignore, [39](#), [48](#), [49](#), [49](#)
- use_git_protocol (git_protocol), [20](#)
- use_git_remote, [50](#)

- use_github, 40
- use_github(), 10
- use_github_action (github_actions), 17
- use_github_action(pkgdown), 46, 57
- use_github_action_check_release (github_actions), 17
- use_github_action_check_standard (github_actions), 17
- use_github_action_check_standard(), 67
- use_github_action_pr_commands (github_actions), 17
- use_github_actions (github_actions), 17
- use_github_actions(), 4, 6, 67
- use_github_actions_badge (github_actions), 17
- use_github_file, 42
- use_github_file(), 19
- use_github_labels, 43
- use_github_links, 45
- use_github_links(), 40
- use_github_pages, 46
- use_github_pages(), 57
- use_github_release, 47
- use_gitlab_ci (ci), 6
- use_gpl3_license (licenses), 23
- use_gpl_license (licenses), 23
- use_import_from, 51
- use_jenkins, 52
- use_lgpl_license (licenses), 23
- use_lifecycle, 52
- use_lifecycle_badge (badges), 3
- use_lifecycle_badge(), 52
- use_logo, 53
- use_make, 53
- use_make(), 52
- use_mit_license (licenses), 23
- use_namespace, 54
- use_news_md, 54
- use_package, 55
- use_package_doc, 56
- use_package_doc(), 51, 65
- use_partial_warnings (rprofile-helper), 31
- use_pipe, 56
- use_pkgdown, 57
- use_pkgdown_github_pages (use_pkgdown), 57
- use_pkgdown_github_pages(), 47
- use_pkgdown_travis (use_pkgdown), 57
- use_proprietary_license (licenses), 23
- use_r, 58
- use_rcpp, 58
- use_rcpp_armadillo (use_rcpp), 58
- use_rcpp_eigen (use_rcpp), 58
- use_readme_md (use_readme_rmd), 59
- use_readme_rmd, 59
- use_release_issue, 60
- use_reprex (rprofile-helper), 31
- use_revdep, 61
- use_rmarkdown_template, 61
- use_roxygen_md, 62
- use_rstudio, 62
- use_rstudio(), 11
- use_spell_check, 63
- use_template, 63
- use_test (use_r), 58
- use_test(), 65
- use_testthat, 64
- use_tibble, 65
- use_tidy_coc (use_tidy_github_actions), 66
- use_tidy_contributing (use_tidy_github_actions), 66
- use_tidy_dependencies (use_tidy_github_actions), 66
- use_tidy_description (use_tidy_github_actions), 66
- use_tidy_eval (use_tidy_github_actions), 66
- use_tidy_github (use_tidy_github_actions), 66
- use_tidy_github_actions, 66
- use_tidy_github_actions(), 19
- use_tidy_github_labels (use_github_labels), 43
- use_tidy_github_labels(), 67
- use_tidy_issue_template (use_tidy_github_actions), 66
- use_tidy_style (use_tidy_github_actions), 66
- use_tidy_support (use_tidy_github_actions), 66
- use_tidy_thanks, 68
- use_tidy_upkeep_issue (use_tidy_github_actions), 66
- use_travis (ci), 6

`use_travis_badge (ci)`, 6
`use_tutorial`, 69
`use_usethis (rprofile-helper)`, 31
`use_version`, 70
`use_vignette`, 71
`use_vignette()`, 39
`use_zip (zip-utils)`, 72
`utils::file.edit()`, 18, 32, 35, 36, 43, 54,
56, 59, 64, 69

`whisker::whisker.render()`, 64
`with_project (proj_utils)`, 25

zip-utils, 72