

Package ‘usethis’

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Title Automate Package and Project Setup

Version 1.4.0

Description Automate package and project setup tasks that are otherwise performed manually. This includes setting up unit testing, test coverage, continuous integration, Git, 'GitHub', licenses, 'Rcpp', 'RStudio' projects, and more.

License GPL-3

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

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badges *README badges*

Description

These helpers produce the markdown text you need in your README to include badges that report information, such as the CRAN version or test coverage, and link out to relevant external resources.

Usage

```
use_badge(badge_name, href, src)

use_cran_badge()

use_bioc_badge()

use_lifecycle_badge(stage)

use_binder_badge()
```

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

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://www.tidyverse.org/lifecycle/>:
 - Experimental
 - Maturing
 - Stable
 - Retired
 - Archived
 - Dormant
 - Questioning
- use_binder_badge(): badge indicates that your repository can be launched in an executable environment on <https://mybinder.org/>

See Also

The [functions that set up continuous integration services](#) also create badges.

Examples

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

## End(Not run)
```

browse-this

Quickly browse to important package webpages

Description

These functions take you to various webpages associated with a package and return the target URL invisibly. Some URLs are formed from first principles and there is no guarantee there will be content at the destination.

Usage

```
browse_github(package = NULL)

browse_github_issues(package = NULL, number = NULL)

browse_github_pulls(package = NULL, number = NULL)

browse_travis(package = NULL)

browse_cran(package = NULL)
```

Arguments

package	Name of package; leave as NULL to use current package
number	For GitHub issues and pull requests. Can be a number or "new".

Details

- `browse_github()`: Looks for a GitHub URL in the URL field of DESCRIPTION.
- `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 package's page on [Travis CI](#).
- `browse_cran()`: Visits the package on CRAN, via the canonical URL.

Examples

```
browse_github("gh")
browse_github_issues("backports")
browse_github_issues("backports", 1)
browse_github_pulls("rprojroot")
browse_github_pulls("rprojroot", 3)
browse_travis("usethis")
browse_cran("MASS")
```

`browse_github_pat` *Create a GitHub personal access token*

Description

Opens a browser window to the GitHub page where you can generate a **Personal Access Token**. Make sure you have signed up for a free **GitHub.com** account and that you are signed in. Click "Generate token" after you have verified the scopes. Copy the token right away! You probably want to store it in `.Renviro`n as the `GITHUB_PAT` environment variable. `edit_r_enviro`n() can help you do that. Use `gh::gh_whoami()` to get information on an existing token.

Usage

```
browse_github_pat(scopes = c("repo", "gist"),
  description = "R:GITHUB_PAT", host = "https://github.com")
```

Arguments

<code>scopes</code>	Character vector of token permissions. These are just defaults that will be pre-selected in the web form. You can select the final values on the GitHub page. Read more about GitHub API scopes at https://developer.github.com/apps/building-oauth-apps/scopes-for-oauth-apps/ .
<code>description</code>	Short description or nickname for the token. It helps you distinguish various tokens on GitHub.
<code>host</code>	GitHub API host to use. Override with the endpoint-root for your GitHub enterprise instance, for example, "https://github.hostname.com/api/v3"

Examples

```
## Not run:
browse_github_pat()
## COPY THE PAT!!!
## almost certainly to be followed by ...
edit_r_enviro()
## which helps you store the PAT as an env var

## End(Not run)
```

Description

Sets up continuous integration (CI) services for an R package that is developed on GitHub. CI services can run `R CMD check` automatically on various platforms, triggered by each push or pull request. 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 = interactive())
```

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

```
use_appveyor(browse = interactive())
```

Arguments

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

`type` Which web service to use for test reporting. Currently supports [Codecov](#) and [Coveralls](#).

`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_coverage()`

Adds test coverage reports to a package that is already using Travis CI.

`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.

create_from_github *Create a project from a GitHub repo*

Description

Creates a new local Git repository from a repository on GitHub. It is highly recommended that you pre-configure or pass a GitHub personal access token (PAT), which is facilitated by [browse_github_pat\(\)](#). In particular, a PAT is required in order for `create_from_github()` to do "fork and clone". It is also required by [use_github\(\)](#), which connects existing local projects to GitHub. [use_github\(\)](#) has more detailed advice on working with the `protocol` and `credentials` arguments.

Usage

```
create_from_github(repo_spec, destdir = NULL, fork = NA,
  rstudio = NULL, open = interactive(), protocol = c("ssh", "https"),
  credentials = NULL, auth_token = NULL, host = NULL)
```

Arguments

repo_spec	GitHub repo specification in this form: owner/repo. The repo part will be the name of the new local repo.
destdir	The new folder is stored here. Defaults to user's Desktop.
fork	If TRUE, we create and clone a fork. If FALSE, we clone repo_spec itself. Will be set to FALSE if no auth_token (a.k.a. PAT) is provided or preconfigured. Otherwise, defaults to FALSE if you can push to repo_spec and TRUE if you cannot. If a fork is created, the original target repo is added to the local repo as the upstream remote, using your preferred protocol, to make it easier to pull upstream changes in the future.
rstudio	Initiate an RStudio Project ? Defaults to TRUE if in an RStudio session and project has no pre-existing .Rproj file. Defaults to FALSE otherwise.
open	If TRUE and in RStudio, a new RStudio project is opened in a new instance, if possible, or is switched to, otherwise. If TRUE and not in RStudio (or new project is not an RStudio project), working directory is set to the new project.
protocol	transfer protocol, either "ssh" (the default) or "https"
credentials	A <code>git2r::cred_ssh_key()</code> specifying specific ssh credentials or NULL for default ssh key and ssh-agent behaviour.
auth_token	Provide a personal access token (PAT) from https://github.com/settings/tokens . If NULL, will use the logic described in <code>gh::gh_whoami()</code> to look for a token stored in an environment variable. Use browse_github_pat() to help set up your PAT.
host	GitHub API host to use. Override with the endpoint-root for your GitHub enterprise instance, for example, "https://github.hostname.com/api/v3"

See Also

[use_github\(\)](#) for GitHub setup advice. [use_course\(\)](#) for one-time download of all files in a Git repo, without any local or remote Git operations.

Examples

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

create_from_github("r-lib/usethis", protocol = "https")

## various ways code can look when specifying ssh credential explicitly
create_from_github("r-lib/usethis", credentials = git2r::cred_ssh_key())

cred <- git2r::cred_ssh_key(
  publickey = "path/to/id_rsa.pub",
  privatekey = "path/to/id_rsa"
)
create_from_github("cran/TailRank", credentials = cred)

## 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 add project infrastructure to an existing directory of files or can create a completely new project. Both functions change the active project, so that subsequent `use_*` calls affect the project that you've just created. See [proj_set\(\)](#) to manually reset it.

Usage

```
create_package(path, fields = NULL,
  rstudio = rstudioapi::isAvailable(), open = interactive())

create_project(path, rstudio = rstudioapi::isAvailable(),
  open = 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 <code>use_description()</code> for how you can set personalized defaults using package options
rstudio	If TRUE, calls <code>use_rstudio()</code> 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 <code>rprojroot</code> packages.
open	If TRUE and in RStudio, a new RStudio project is opened in a new instance, if possible, or is switched to, otherwise. If TRUE and not in RStudio (or new project is not an RStudio project), working directory is set to the new project.

edit	<i>Open configuration files</i>
------	---------------------------------

Description

- `edit_r_profile()` opens `.Rprofile`
- `edit_r_environ()` opens `.Renviron`
- `edit_r_makevars()` opens `.R/Makevars`
- `edit_git_config()` opens `.gitconfig` or `.git/config`
- `edit_git_ignore()` opens `.gitignore`
- `edit_rstudio_snippets(type)` opens `.R/snippets/{type}.snippets`

Usage

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

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

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

```
edit_rstudio_snippets(type = "R")
```

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

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

Arguments

scope	Edit globally for the current user , or locally for the current project
type	Snippet type. One of: "R", "markdown", "C_Cpp", "Tex", "Javascript", "HTML", "SQL"

Details

The `edit_r_*`() and `edit_rstudio_*`() 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.

Value

Path to the file, invisibly.

licenses

License a package

Description

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

- **CC0**: dedicated to public domain. Appropriate for data packages.
- **MIT**: simple and permissive.
- **Apache 2.0**: provides patent protection.
- **GPL v3**: requires sharing of improvements.

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

Usage

```
use_mit_license(name = find_name())
```

```
use_gpl3_license(name = find_name())
```

```
use_apl2_license(name = find_name())
```

```
use_cc0_license(name = find_name())
```

Arguments

`name` Name of the copyright holder or holders. Separate multiple individuals with ;. You can supply a global default with `options(usethis.full_name = "My name")`.

Details

CRAN does not allow 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

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

proj_sitrep	<i>Report working directory and usethis/RStudio project</i>
-------------	---

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	<i>Utility functions for the active project</i>
------------	---

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(quiet = FALSE)
```

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

```
proj_path(..., ext = "")
```

Arguments

quiet	Logical. Whether to announce project activation.
path	Path to set.
force	If TRUE, use this path without checking the usual criteria. 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.
ext	An optional extension to append to the generated path.

Details

In general, end user code should not call `usethis::proj_get()`, `usethis::proj_set()`, or `usethis::proj_path()`. 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. Thin wrapper around `fs::path()`.

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")

## End(Not run)
```

`tidyverse`*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_ci(browse = interactive())  
  
use_tidy_description()  
  
use_tidy_versions(overwrite = FALSE)  
  
use_tidy_eval()  
  
use_tidy_contributing()  
  
use_tidy_issue_template()  
  
use_tidy_support()  
  
use_tidy_coc()  
  
use_tidy_github()  
  
use_tidy_style(strict = TRUE)
```

Arguments

<code>browse</code>	Open a browser window to enable automatic builds for the package.
<code>overwrite</code>	By default (FALSE), only dependencies without version specifications will be modified. Set to TRUE to modify all dependencies.
<code>strict</code>	Boolean indicating whether or not a strict version of styling should be applied. See <code>styler::tidyverse_style()</code> for details.

Details

- `use_tidy_ci()`: sets up [Travis CI](#) and [Codecov](#), ensuring that the package works on all versions of R starting at 3.1.
- `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_versions()`: pins all dependencies to require at least the currently installed version.
- `use_tidy_contributing()`: adds standard tidyverse contributing guidelines.
- `use_tidy_issue_template()`: adds a standard tidyverse issue template.
- `use_tidy_support()`: adds a standard description of support resources for the tidyverse.
- `use_tidy_coc()`: equivalent to `use_code_of_conduct()`, but puts the document in a `.github/` subdirectory.
- `use_tidy_github()`: convenience wrapper that calls `use_tidy_contributing()`, `use_tidy_issue_template()`, `use_tidy_support()`, `use_tidy_coc()`.

use_tidy_style()

Uses the [styler package](#) package to style all code in a package, project, or directory, according to the [tidyverse style guide](#).

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

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

use_blank_slate

Don't save/load user workspace between sessions

Description

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

Usage

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

Arguments

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

Details

Only `use_blank_slate("project")` is automated so far, since RStudio currently only supports modification of user-level or global options via the user interface.

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.

Usage

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

Arguments

files	Character vector of path names.
escape	If TRUE, the default, will escape . to \. and surround with ^ and \$.

use_code_of_conduct	<i>Add a code of conduct</i>
---------------------	------------------------------

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 <http://contributor-covenant.org>, version 1: <http://contributor-covenant.org/version/1/0/0/>.

Usage

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

Arguments

path	Path of the directory to put CODE_OF_CONDUCT.md in, relative to the active project. Passed along to <code>use_directory()</code> . Default is to locate at top-level, but <code>.github/</code> is also common.
------	---

`use_course`*Download course materials*

Description

Special-purpose function to download a folder of course materials. The only demand on the user is to confirm or specify where the new folder should be stored. Workflow:

- User executes something like: `use_course("bit.ly/xxx-yyy-zzz")`.
- User is asked to notice and confirm the location of the new folder. Specify `destdir` to skip this.
- User is asked if they'd like to delete the ZIP file.
- If new folder contains an `.Rproj` file, it is opened. Otherwise, the folder is opened in the file manager, e.g. Finder or File Explorer.

Usage

```
use_course(url, destdir = NULL)
```

Arguments

<code>url</code>	Link to a ZIP file containing the materials, possibly behind a shortlink. Function developed with DropBox and GitHub in mind, but should work for ZIP files generally. If no "http" prefix is found, "https://" is prepended. See use_course_details for more.
<code>destdir</code>	The new folder is stored here. Defaults to user's Desktop.

Details

If `url` has no "http" prefix, "https://" is prepended, allowing for even less typing by the user. Most URL shorteners give HTTPS links and, anecdotally, we note this appears to work with [bit.ly](#) links, even though they are nominally HTTP.

Value

Path to the new directory holding the course materials, invisibly.

See Also

Other download functions: [use_course_details](#)

Examples

```
## Not run:
## bit.ly shortlink example
## should work with and without http prefix
use_course("bit.ly/usethis-shortlink-example")
use_course("http://bit.ly/usethis-shortlink-example")

## demo with a small CRAN package available in various places

## from CRAN
use_course("https://cran.r-project.org/bin/windows/contrib/3.4/rematch2_2.0.1.zip")

## from GitHub, 2 ways
use_course("https://github.com/r-lib/rematch2/archive/master.zip")
use_course("https://api.github.com/repos/r-lib/rematch2/zipball/master")

## End(Not run)
```

use_cran_comments	<i>CRAN submission comments</i>
-------------------	---------------------------------

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 = 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	<i>Create package data</i>
----------	----------------------------

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.

Usage

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

use_data_raw()
```

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 <code>data()</code> 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 <code>exportPattern()</code> rule which exports all objects except for those that start with ..
overwrite	By default, <code>use_data()</code> will not overwrite existing files. If you really want to do so, set this to TRUE.
compress	Choose the type of compression used by <code>save()</code> . Should be one of "gzip", "bzip2", or "xz".

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)
```

use_description	<i>Create or modify a DESCRIPTION file</i>
-----------------	--

Description

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

- fields argument of `create_package()` or `use_description()`.
- `getOption("usethis.description")` or `getOption("devtools.desc")`. The devtools option is consulted only for backwards compatibility and it's recommended to switch to an option named "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`:

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

Usage

```
use_description(fields = NULL)
```

```
use_description_defaults()
```

Arguments

`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

See Also

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

Examples

```
## Not run:  
use_description()  
  
use_description(fields = list(Language = "es"))  
  
use_description_defaults()  
  
## End(Not run)
```

use_directory

Use a directory

Description

`use_directory()` creates a directory (if it does not already exist) in the project's top-level directory. This function powers many of the other `use_` functions such as `use_data()` and `use_vignette()`.

Usage

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

Arguments

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

Examples

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

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	<i>Connect a local repo with GitHub</i>
------------	---

Description

use_github() takes a local project, creates an associated repo on GitHub, adds it to your local repo as the origin remote, and makes an initial push to synchronize. use_github() requires that your project already be a Git repository, which you can accomplish with use_git(), if needed. See the Authentication section below for other necessary setup.

Usage

```
use_github(organisation = NULL, private = FALSE, protocol = c("ssh",
  "https"), credentials = NULL, auth_token = NULL, host = NULL)
```

Arguments

organisation	If supplied, the repo will be created under this organisation. You must have access to create repositories.
private	If TRUE, creates a private repository.
protocol	transfer protocol, either "ssh" (the default) or "https"
credentials	A <code>git2r::cred_ssh_key()</code> specifying specific ssh credentials or NULL for default ssh key and ssh-agent behaviour.
auth_token	Provide a personal access token (PAT) from https://github.com/settings/tokens . If NULL, will use the logic described in <code>gh::gh_whoami()</code> to look for a token stored in an environment variable. Use <code>browse_github_pat()</code> to help set up your PAT.
host	GitHub API host to use. Override with the endpoint-root for your GitHub enterprise instance, for example, "https://github.hostname.com/api/v3"

Authentication

A new GitHub repo will be created via the GitHub API, therefore you must make a **GitHub personal access token (PAT)** available. You can either provide this directly via the auth_token argument or store it in an environment variable. Use `browse_github_pat()` to get help obtaining and storing your PAT. See `gh::gh_whoami()` for even more detail.

The argument protocol specifies the transport protocol you wish to use for this repo in the long run. This determines the form of the URL for the origin remote:

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

For protocol = "ssh", it is assumed that public and private keys are in the default locations, `~/.ssh/id_rsa.pub` and `~/.ssh/id_rsa`, respectively, and that ssh-agent is configured to manage any associated passphrase. Alternatively, specify a `git2r::cred_ssh_key()` object via the credentials parameter. Read more about ssh setup in **Happy Git**, especially the **troubleshooting section**.

Examples

```
## Not run:
pkgpath <- file.path(tempdir(), "testpkg")
create_package(pkgpath) # creates package below temp directory

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

## create github repository and configure as git remote
use_github()          ## to use default ssh protocol
use_github(protocol = "https") ## to use https

## End(Not run)
```

use_github_labels *Manage GitHub issue labels*

Description

use_github_labels() creates new labels and/or changes label colours. It does not generally remove labels. But if you set delete_default = TRUE, it will delete labels that are (1) flagged by the API as being **GitHub default labels** and (2) not present in the labels you provide via labels.

tidy_labels() returns the labels and colours commonly used by tidyverse packages.

Usage

```
use_github_labels(labels = tidy_labels(), delete_default = FALSE,
  auth_token = NULL, host = NULL)
```

```
tidy_labels()
```

Arguments

labels	Named character vector of labels. The names are the label text, such as "bug", and the values are the label colours in hexadecimal, such as "e02a2a". First, labels that don't yet exist are created, then label colours are updated.
delete_default	If TRUE, will remove GitHub default labels that do not appear in the labels vector (presumably defaults that aren't relevant to your workflow).
auth_token	Provide a personal access token (PAT) from https://github.com/settings/tokens . If NULL, will use the logic described in <code>gh::gh_whoami()</code> to look for a token stored in an environment variable. Use <code>browse_github_pat()</code> to help set up your PAT.
host	GitHub API host to use. Override with the endpoint-root for your GitHub enterprise instance, for example, "https://github.hostname.com/api/v3"

Label usage

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

- `reprex` indicates that an issue does not have a minimal reproducible example, and that a reply has been sent requesting one from the user.
- `bug type`, indicates an unexpected problem or unintended behavior.
- `feature type`, indicates a feature request or enhancement.
- `docs type`, indicates an issue with the documentation.
- `performance` indicates a non-breaking area related to performance.
- `wip` indicates that someone else 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)

## 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.

Usage

```
use_github_links(auth_token = NULL, host = "https://api.github.com",
  overwrite = FALSE)
```

Arguments

<code>auth_token</code>	Provide a personal access token (PAT) from https://github.com/settings/tokens . If <code>NULL</code> , will use the logic described in <code>gh:gh_whoami()</code> to look for a token stored in an environment variable. Use <code>browse_github_pat()</code> to help set up your PAT.
<code>host</code>	GitHub API host to use. Override with the endpoint-root for your GitHub enterprise instance, for example, "https://github.hostname.com/api/v3"
<code>overwrite</code>	By default, <code>use_github_links()</code> will not overwrite existing fields. Set to <code>TRUE</code> to overwrite existing links.

Examples

```
## Not run:
use_github_links()

## End(Not run)
```

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

Description

Sets Git options, for either the user or the project ("global" or "local", in Git terminology). The mandate is currently very narrow: to manage the user name and email. The scope argument is consulted when writing. When reading, `use_git_config()` ignores scope and simply reports the options in effect, where local config overrides global, if present. Use `git2r::config()` directly or the command line for general Git configuration.

Usage

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

Arguments

scope	Edit globally for the current user , or locally for the current project
...	Additional options to write or delete from the configuration.

Value

A list with components `user.name` and `user.email`.

See Also

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

Examples

```
## Not run:
## see if user name and email are currently configured
use_git_config()

## set the user's global user.name and user.email
use_git_config(user.name = "Jane", user.email = "jane@example.org")

## set the user.name and user.email locally, i.e. for current repo/project
use_git_config(
  scope = "project",
  user.name = "Jane",
```



```

    user.email = "jane@example.org"
)

## End(Not run)

```

use_git_hook *Add a git hook*

Description

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

Usage

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

Arguments

hook	Hook name. One of "pre-commit", "prepare-commit-msg", "commit-msg", "post-commit", "applypatch-msg", "pre-applypatch", "post-applypatch", "pre-rebase", "post-rewrite", "post-checkout", "post-merge", "pre-push", "pre-auto-gc".
script	Text of script to run

See Also

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

use_git_ignore *Tell git to ignore files*

Description

Tell git to ignore files

Usage

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

Arguments

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

See Also

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

use_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 = "120x140")
```

Arguments

<code>img</code>	The path to an existing image file
<code>geometry</code>	a <code>magick::geometry</code> string specifying size

Examples

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

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

Description

This NAMESPACE exports everything, except functions that start with a `.`

Usage

```
use_namespace()
```

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 = interactive())
```

Arguments

open	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 versioned dependency on an in-development GitHub package, adding the repo to Remotes so it will be automatically installed from the correct location.

Usage

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

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

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.

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	<i>Package-level documentation</i>
-----------------	------------------------------------

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()
```

See Also

The [documentation chapter of R Packages](#)

use_pipe	<i>Use magrittr's pipe in your package</i>
----------	--

Description

Does setup necessary to use magrittr's pipe internally in your package and to re-export it for users of your package:

- Adds magrittr to "Imports" in DESCRIPTION
- Creates R/utils-pipe.R with the necessary roxygen template

Usage

```
use_pipe()
```

use_pkgdown	<i>Use pkgdown</i>
-------------	--------------------

Description

`pkgdown` makes it easy to turn your package into a beautiful website. This helper creates `_pkgdown.yml` and `docs/` for you, and adds them to `.Rbuildignore`

Usage

```
use_pkgdown()
```

use_r	<i>Create or edit a .R file</i>
-------	---------------------------------

Description

Create or edit a .R file

Usage

```
use_r(name = NULL)
```

Arguments

name	File name, without extension; will create if it doesn't already exist. If not specified, and you're currently in a test file, will guess name based on test name.
------	---

See Also

[use_test\(\)](#), and also the [R code chapter](#) of [R Packages](#).

use_rcpp	<i>Use Rcpp</i>
----------	-----------------

Description

Creates `src/` and adds needed packages to `DESCRIPTION`.

Usage

```
use_rcpp()
```

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 data. 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).

Usage

```
use_readme_rmd(open = interactive())
```

```
use_readme_md(open = 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_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 = asciify(template_name),
  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.
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 roxygen with markdown</i>
----------------	----------------------------------

Description

You'll need to manually re-document once enabled. If you are already using roxygen2, but not with markdown, the **roxygen2md** package will be used to convert many Rd expressions to markdown. The package uses heuristics, so you'll need 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()
```

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	Name of file to create. Defaults to template
data	A list of data passed to the template.
ignore	Should the newly created file be added to .Rbuildignore?
open	Open the newly created file for editing? Happens in RStudio, if applicable, or via utils::file.edit() otherwise.
package	Name of the package where the template is found.

Details

This function can be used as the engine for a templating function in other packages. The `template` argument is used along with the `package` argument to determine the path to your template file; it will be expected at `system.file("templates", template, package = package)`.

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

Create tests

Description

`use_testthat()` sets up testing infrastructure, creating `tests/testthat.R` and `tests/testthat/`, and adding **testthat** to the suggested packages. `use_test()` creates `tests/testthat/test-<name>.R` and opens it for editing.

Usage

```
use_testthat()

use_test(name = NULL, open = interactive())
```

Arguments

<code>name</code>	Test name. if <code>NULL</code> , and you're using RStudio, will use the name of the file open in the source editor.
<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 [testing chapter](#) of [R Packages](#).

`use_tibble`*Prepare to return a tibble*

Description

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
- Reveal the roxygen directive necessary to import at least one function from tibble.
- Offer support re: where to put this directive. Preferred location is in the roxygen snippet produced by `use_package_doc()`.

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_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/articles/>. All arguments can potentially be determined from the active project, if the project follows standard practices around the GitHub remote and GitHub releases. 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 = github_repo_spec(),
  from = releases(repo_spec)[[1]], to = NULL)
```

Arguments

repo_spec	GitHub repo specification in this form: owner/repo. Default is to infer from Git remotes of active project.
from, to	GitHub ref (i.e., a SHA, tag, or release) or a timestamp in ISO 8601 format, specifying the start or end of the interval of interest. Examples: "08a560d", "v1.3.0", "2018-02-24T00:13:45Z", "2018-05-01". NULL means there is no bound on that end of the interval.

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 = "2018-02-24T00:13:45Z")

## r-lib/usethis, interval = since a certain date
use_tidy_thanks("r-lib/usethis", from = "2018-05-01")

## r-lib/usethis, up to a specific release
use_tidy_thanks("r-lib/usethis", from = NULL, to = "v1.3.0")

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

## End(Not run)
```

```
use_usethis
```

```
Make usethis available in interactive sessions
```

Description

Opens your .Rprofile and gives you the code you need to paste in.

Usage

```
use_usethis()
```

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).

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`*Create a vignette*

Description

Performs general set up for vignettes and initializes a new individual vignette:

- Adds needed packages to DESCRIPTION
- Adds inst/doc to .gitignore so built vignettes aren't tracked
- Creates a new draft .Rmd vignette in vignettes/ and, if possible, opens it for editing

Usage

```
use_vignette(name)
```

Arguments

name	Base for file name to use for new vignette. Should consist only of numbers, letters, _ and -. I recommend using lower case.
------	---

See Also

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

Examples

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

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