

# Package ‘rcompendium’

October 26, 2023

**Type** Package

**Title** Create a Package or Research Compendium Structure

**Version** 1.3

**Description** Makes easier the creation of R package or research compendium (i.e. a predefined files/folders structure) so that users can focus on the code/analysis instead of wasting time organizing files. A full ready-to-work structure is set up with some additional features: version control, remote repository creation, CI/CD configuration (check package integrity under several OS, test code with 'testthat', and build and deploy website using 'pkgdown'). This package heavily relies on the R packages 'devtools' and 'usethis' and follows recommendations made by Wickham H. (2015) <ISBN:9781491910597> and Marwick B. et al. (2018) <doi:10.7287/peerj.preprints.3192v2>.

**URL** <https://github.com/FRBCesab/rcompendium>,  
<https://frbcesab.github.io/rcompendium/>

**BugReports** <https://github.com/FRBCesab/rcompendium/issues>

**License** GPL (>= 2)

**Encoding** UTF-8

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rmarkdown, rstudioapi, stringr, usethis, utils, xfun

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---

add_citation	<i>Create a CITATION file</i>
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---

## Description

This function creates a CITATION file in the folder `inst/`. This file contains a BiBTeX entry to cite the package as a manual. User will need to edit by hand some information (title, version, etc.).

## Usage

```
add_citation(  
  given = NULL,  
  family = NULL,  
  organisation = NULL,  
  open = TRUE,  
  overwrite = FALSE,  
  quiet = FALSE  
)
```

## Arguments

<code>given</code>	A character of length 1. The given name of the project maintainer.
<code>family</code>	A character of length 1. The family name of the project maintainer.
<code>organisation</code>	A character of length 1. The name of the GitHub organisation to host the package. If NULL (default) the GitHub account will be used. This argument is used to set the URL of the package (hosted on GitHub).
<code>open</code>	A logical value. If TRUE (default) the file is opened in the editor.
<code>overwrite</code>	A logical value. If this file is already present and <code>overwrite = TRUE</code> , it will be erased and replaced. Default is FALSE.
<code>quiet</code>	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other create files: [add\\_code\\_of\\_conduct\(\)](#), [add\\_compendium\(\)](#), [add\\_contributing\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_makefile\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_renv\(\)](#), [add\\_testthat\(\)](#), [add\\_vignette\(\)](#)

## Examples

```
## Not run:
add_citation()
readCitationFile("inst/CITATION")
citation("pkg") # If you have installed your package <pkg>

## End(Not run)
```

---

add\_codecov\_badge      *Add a Codecov badge*

---

## Description

This function adds a **Code coverage** badge to the README.Rmd, i.e. the percentage of code cover by units tests. This percentage is computed by the codecov.io service.

**Note:** this service must be manually activated for the package by visiting <https://about.codecov.io/>.

Make sure that 1) a README.Rmd file exists at the project root and 2) it contains a block starting with the line `<!-- badges: start -->` and ending with the line `<!-- badges: end -->`.

Don't forget to re-render the README.md.

## Usage

```
add_codecov_badge(organisation = NULL, quiet = FALSE)
```

## Arguments

**organisation**      A character of length 1. The name of the GitHub organisation to host the package. If NULL (default) the GitHub account will be used.

**quiet**              A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

A badge as a markdown expression.

## See Also

Other adding badges: [add\\_cran\\_badge\(\)](#), [add\\_dependencies\\_badge\(\)](#), [add\\_github\\_actions\\_check\\_badge\(\)](#), [add\\_github\\_actions\\_codecov\\_badge\(\)](#), [add\\_github\\_actions\\_pkgdown\\_badge\(\)](#), [add\\_license\\_badge\(\)](#), [add\\_lifecycle\\_badge\(\)](#), [add\\_repostatus\\_badge\(\)](#)

## Examples

```
## Not run:
add_codecov_badge()

## End(Not run)
```

---

add\_code\_of\_conduct    *Add code of conduct*

---

## Description

This function creates a CODE\_OF\_CONDUCT.md file adapted from the Contributor Covenant, version 2.1 available at [https://www.contributor-covenant.org/version/2/1/code\\_of\\_conduct.html](https://www.contributor-covenant.org/version/2/1/code_of_conduct.html).

## Usage

```
add_code_of_conduct(  
  email = NULL,  
  open = TRUE,  
  overwrite = FALSE,  
  quiet = FALSE  
)
```

## Arguments

email	A character of length 1. The email address of the project maintainer.
open	A logical value. If TRUE (default) the CONTRIBUTING.md file is opened in the editor.
overwrite	A logical value. If files are already present and overwrite = TRUE, they will be erased and replaced. Default is FALSE.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other create files: [add\\_citation\(\)](#), [add\\_compendium\(\)](#), [add\\_contributing\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_makefile\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_renv\(\)](#), [add\\_testthat\(\)](#), [add\\_vignette\(\)](#)

## Examples

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

---

add_compendium	<i>Create additional folders</i>
----------------	----------------------------------

---

## Description

This function creates a compendium, i.e. additional folders to a package structure. By default, the following directories are created: `data/raw-data`, `data/derived-data`, `analyses/`, `outputs/`, and `figures/`. A `README.md` is added to each folder and must be edited. The argument `compendium` allows user to choose its own compendium structure. All these folders are added to the `.Rbuildignore` file.

## Usage

```
add_compendium(compendium = NULL, quiet = FALSE)
```

## Arguments

<code>compendium</code>	A character vector specifying the folders to be created.
<code>quiet</code>	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other create files: [add\\_citation\(\)](#), [add\\_code\\_of\\_conduct\(\)](#), [add\\_contributing\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_makefile\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_renv\(\)](#), [add\\_testthat\(\)](#), [add\\_vignette\(\)](#)

## Examples

```
## Not run:  
add_compendium()  
add_compendium(compendium = "paper")  
add_compendium(compendium = c("data", "outputs", "code", "manuscript"))  
  
## End(Not run)
```

---

add\_contributing      *Add contribution guidelines*

---

## Description

This function creates several files to help the user to learn how to contribute to the project:

- CONTRIBUTING.md: general guidelines outlining the best way to contribute to the project (can be modified);
- .github/ISSUE\_TEMPLATE/bug\_report.md: an issue template to report a bug (can be modified);
- .github/ISSUE\_TEMPLATE/feature\_request.md: an issue template to suggest a new feature (can be modified);
- .github/ISSUE\_TEMPLATE/other\_issue.md: an issue template for all other types of issue (can be modified).

## Usage

```
add_contributing(  
  email = NULL,  
  organisation = NULL,  
  open = TRUE,  
  overwrite = FALSE,  
  quiet = FALSE  
)
```

## Arguments

email	A character of length 1. The email address of the project maintainer.
organisation	A character of length 1. The name of the GitHub organisation to host the package. If NULL (default) the GitHub account will be used. This argument is used to set the URL of the package (hosted on GitHub).
open	A logical value. If TRUE (default) the CONTRIBUTING.md file is opened in the editor.
overwrite	A logical value. If files are already present and overwrite = TRUE, they will be erased and replaced. Default is FALSE.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other create files: [add\\_citation\(\)](#), [add\\_code\\_of\\_conduct\(\)](#), [add\\_compendium\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_makefile\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_renv\(\)](#), [add\\_testthat\(\)](#), [add\\_vignette\(\)](#)

## Examples

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

---

add_cran_badge	<i>Add a CRAN Status badge</i>
----------------	--------------------------------

---

## Description

This function adds a **CRAN Status** badge to the README.Rmd. If the package is not hosted on the CRAN the badge will indicate *not published on the CRAN*.

Make sure that 1) a README.Rmd file exists at the project root and 2) it contains a block starting with the line `<!-- badges: start -->` and ending with the line `<!-- badges: end -->`.

Don't forget to re-render the README.md.

## Usage

```
add_cran_badge(quiet = FALSE)
```

## Arguments

`quiet` A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

A badge as a markdown expression.

## See Also

Other adding badges: [add\\_codecov\\_badge\(\)](#), [add\\_dependencies\\_badge\(\)](#), [add\\_github\\_actions\\_check\\_badge\(\)](#), [add\\_github\\_actions\\_codecov\\_badge\(\)](#), [add\\_github\\_actions\\_pkgdown\\_badge\(\)](#), [add\\_license\\_badge\(\)](#), [add\\_lifecycle\\_badge\(\)](#), [add\\_repostatus\\_badge\(\)](#)

## Examples

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



---

add_dependencies	<i>Add dependencies in DESCRIPTION</i>
------------------	--

---

## Description

This function detects external dependencies used in R/, NAMESPACE, and @examples sections of roxygen2 headers and automatically adds these dependencies in the Imports section of the DESCRIPTION file.

In the NAMESPACE this function detects dependencies mentioned as `import(pkg)` and `importFrom(pkg, fun)`.

In the R/ folder it detects functions called as `pkg::fun()` in the code of each R files. In @examples sections it also detects packages attached by `library()` or `require()`.

The vignettes/ folder is also inspected and detected dependencies (`pkg::fun()`, `library()` or `require()`) are added to the Suggests field of the DESCRIPTION file (in addition to the packages `knitr` and `rmarkdown`).

If the project is a research compendium user can also inspect additional folder(s) with the argument `compendium` to add dependencies to the Imports section of the DESCRIPTION file. The detection process is the same as the one used for vignettes/.

The tests/ folder is also inspected and detected dependencies (`pkg::fun()`, `library()` or `require()`) are added to the Suggests field of the DESCRIPTION file (in addition to the package `testthat`).

## Usage

```
add_dependencies(compendium = NULL)
```

## Arguments

<code>compendium</code>	A character of length 1. The name of the folder to recursively detect dependencies to be added to the Imports field of DESCRIPTION file. It can be 'analysis/' (if additional folders, i.e. data/, outputs/, figures/, etc. have been created in this folder), '.' (if folders data/, outputs/, figures/, etc. have been created at the root of the project), etc. See <a href="#">new_compendium()</a> for further information. Default is <code>compendium = NULL</code> (i.e. no additional folder are inspected but R/, NAMESPACE, vignettes/, and tests/ are still inspected).
-------------------------	---

## Value

No return value.

## See Also

Other development functions: [add\\_github\\_actions\\_check\(\)](#), [add\\_github\\_actions\\_citation\(\)](#), [add\\_github\\_actions\\_codecov\(\)](#), [add\\_github\\_actions\\_document\(\)](#), [add\\_github\\_actions\\_pkgdown\(\)](#), [add\\_github\\_actions\\_render\(\)](#), [add\\_r\\_depend\(\)](#), [add\\_to\\_buildignore\(\)](#), [add\\_to\\_gitignore\(\)](#)

## Examples

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

---

add\_dependencies\_badge

*Add a Dependencies badge*

---

## Description

This function adds or updates the **Dependencies** badge to the README.Rmd. The first number corresponds to the direct dependencies and the second to the recursive dependencies.

**Note:** this function can work with packages not published on the CRAN and is based on the function `tools::getDependencies()`. See also the function `get_all_dependencies()`.

Make sure that 1) a README.Rmd file exists at the project root and 2) it contains a block starting with the line `<!-- badges: start -->` and ending with the line `<!-- badges: end -->`.

Don't forget to re-render the README.md.

## Usage

```
add_dependencies_badge(quiet = FALSE)
```

## Arguments

`quiet` A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

A badge as a markdown expression.

## See Also

Other adding badges: `add_codecov_badge()`, `add_cran_badge()`, `add_github_actions_check_badge()`, `add_github_actions_codecov_badge()`, `add_github_actions_pkgdown_badge()`, `add_license_badge()`, `add_lifecycle_badge()`, `add_repostatus_badge()`

## Examples

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

---

add_description	<i>Create a DESCRIPTION file</i>
-----------------	----------------------------------

---

## Description

This function creates a DESCRIPTION file at the root of the project. This file contains metadata of the project. Some information (title, description, version, etc.) must be edited by hand. For more information: <https://r-pkgs.org/description.html>. User credentials can be passed as arguments but it is recommended to store them in the .Rprofile file with [set\\_credentials\(\)](#).

## Usage

```
add_description(  
  given = NULL,  
  family = NULL,  
  email = NULL,  
  orcid = NULL,  
  organisation = NULL,  
  open = TRUE,  
  overwrite = FALSE,  
  quiet = FALSE  
)
```

## Arguments

given	A character of length 1. The given name of the project maintainer.
family	A character of length 1. The family name of the project maintainer.
email	A character of length 1. The email address of the project maintainer.
orcid	A character of length 1. The ORCID of the project maintainer.
organisation	A character of length 1. The name of the GitHub organisation to host the package. If NULL (default) the GitHub account will be used.
open	A logical value. If TRUE (default) the file is opened in the editor.
overwrite	A logical value. If a DESCRIPTION is already present and overwrite = TRUE, this file will be erased and replaced. Default is FALSE.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other create files: [add\\_citation\(\)](#), [add\\_code\\_of\\_conduct\(\)](#), [add\\_compendium\(\)](#), [add\\_contributing\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_makefile\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_renv\(\)](#), [add\\_testthat\(\)](#), [add\\_vignette\(\)](#)

**Examples**

```
## Not run:
add_description(organisation = "MySociety")

## End(Not run)
```

---

add\_dockerfile                      *Create a Dockerfile*

---

**Description**

This function creates a Dockerfile at the root of the project based on a template. The Docker image is based on `rocker/rstudio`. The whole project will be copied in the image and R packages will be installed (using `renv::restore()` or `remotes::install_deps()`).

In addition a `.dockerignore` file is added to ignore some files/folders while building the image.

User can customize this Dockerfile (e.g. system dependencies). He/she can also use a different default Docker image (i.e. `tidyverse`, `verse`, `geospatial`, etc.). For more information: <https://github.com/rocker-org/rocker-versioned2>

By default the versions of R and `renv` (if applicable) specified in the Dockerfile are the same as the local system.

Once the project is ready to be released, user must build the Docker image by running: `docker build -t "image_name" .`

Then to run a container, user must run: `docker run --rm -p 127.0.0.1:8787:8787 -e DISABLE_AUTH=true image_name`

A new instance of RStudio Server is available on the Web browser at the URL: `127.0.0.1:8787`.

**Usage**

```
add_dockerfile(
  given = NULL,
  family = NULL,
  email = NULL,
  open = TRUE,
  overwrite = FALSE,
  quiet = FALSE
)
```

**Arguments**

<code>given</code>	A character of length 1. The given name of the project maintainer.
<code>family</code>	A character of length 1. The family name of the project maintainer.
<code>email</code>	A character of length 1. The email address of the project maintainer.
<code>open</code>	A logical value. If TRUE (default) the Dockerfile is opened in the editor.
<code>overwrite</code>	A logical value. If this file is already present and <code>overwrite = TRUE</code> , it will be erased and replaced. Default is FALSE.
<code>quiet</code>	A logical value. If TRUE messages are deleted. Default is FALSE.

**Value**

No return value.

**See Also**

Other create files: `add_citation()`, `add_code_of_conduct()`, `add_compendium()`, `add_contributing()`, `add_description()`, `add_license()`, `add_makefile()`, `add_package_doc()`, `add_readme_rmd()`, `add_renv()`, `add_testthat()`, `add_vignette()`

**Examples**

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

---

add\_github\_actions\_check

*Setup GitHub Actions to check package*

---

**Description**

This function creates a configuration file (.yaml) to setup GitHub Actions to check the package. This workflow is derived from <https://github.com/r-lib/actions/tree/v2-branch/examples>. This file will be written as `.github/workflows/R-CMD-check.yaml`.

**Usage**

```
add_github_actions_check(open = FALSE, overwrite = FALSE, quiet = FALSE)
```

**Arguments**

<code>open</code>	A logical value. If TRUE (default) the file is opened in the editor.
<code>overwrite</code>	A logical value. If this file is already present and <code>overwrite = TRUE</code> , it will be erased and replaced. Default is FALSE.
<code>quiet</code>	A logical value. If TRUE messages are deleted. Default is FALSE.

**Details**

This workflow runs `R CMD check` on the three major operating systems (Ubuntu, macOS, and Windows) using the latest release of R. The package is also checked on Ubuntu (latest version) using the development and previous versions of R.

**Value**

No return value.

## See Also

Other development functions: [add\\_dependencies\(\)](#), [add\\_github\\_actions\\_citation\(\)](#), [add\\_github\\_actions\\_codecov](#), [add\\_github\\_actions\\_document\(\)](#), [add\\_github\\_actions\\_pkgdown\(\)](#), [add\\_github\\_actions\\_render\(\)](#), [add\\_r\\_depend\(\)](#), [add\\_to\\_buildignore\(\)](#), [add\\_to\\_gitignore\(\)](#)

## Examples

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

---

```
add_github_actions_check_badge  
Add a R CMD Check badge
```

---

## Description

This function adds a **R CMD Check** badge to the README.Rmd. This function must be run after [add\\_github\\_actions\\_check\(\)](#) which will setup GitHub Actions to check and test the package.

Make sure that 1) a README.Rmd file exists at the project root and 2) it contains a block starting with the line `<!-- badges: start -->` and ending with the line `<!-- badges: end -->`.

Don't forget to re-render the README.md.

## Usage

```
add_github_actions_check_badge(organisation = NULL, quiet = FALSE)
```

## Arguments

organisation	A character of length 1. The name of the GitHub organisation to host the package. If NULL (default) the GitHub account will be used.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

A badge as a markdown expression.

## See Also

Other adding badges: [add\\_codecov\\_badge\(\)](#), [add\\_cran\\_badge\(\)](#), [add\\_dependencies\\_badge\(\)](#), [add\\_github\\_actions\\_codecov\\_badge\(\)](#), [add\\_github\\_actions\\_pkgdown\\_badge\(\)](#), [add\\_license\\_badge\(\)](#), [add\\_lifecycle\\_badge\(\)](#), [add\\_repostatus\\_badge\(\)](#)

## Examples

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

---

```
add_github_actions_citation  
    Setup GitHub Actions to update CITATION.cff
```

---

## Description

This function creates a configuration file (.yaml) to setup GitHub Actions to update the CITATION.cff. This workflow is derived from <https://github.com/r-lib/actions/tree/v2-branch/examples>. This file will be written as .github/workflows/update-citation-cff.yaml.

This function also create the CITATION.cff using the package [cffr](#).

## Usage

```
add_github_actions_citation(open = FALSE, overwrite = FALSE, quiet = FALSE)
```

## Arguments

open	A logical value. If TRUE (default) the file is opened in the editor.
overwrite	A logical value. If this file is already present and overwrite = TRUE, it will be erased and replaced. Default is FALSE.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other development functions: [add\\_dependencies\(\)](#), [add\\_github\\_actions\\_check\(\)](#), [add\\_github\\_actions\\_codecov\(\)](#), [add\\_github\\_actions\\_document\(\)](#), [add\\_github\\_actions\\_pkgdown\(\)](#), [add\\_github\\_actions\\_render\(\)](#), [add\\_r\\_depend\(\)](#), [add\\_to\\_buildignore\(\)](#), [add\\_to\\_gitignore\(\)](#)

## Examples

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

---

`add_github_actions_codecov`*Setup GitHub Actions to report code coverage*

---

## Description

This function creates a configuration file (.yaml) to setup GitHub Actions to report code coverage when testing the package. This workflow is derived from <https://github.com/r-lib/actions/tree/v2-branch/examples>. This file will be written as `.github/workflows/test-coverage.yaml`.

## Usage

```
add_github_actions_codecov(open = FALSE, overwrite = FALSE, quiet = FALSE)
```

## Arguments

<code>open</code>	A logical value. If TRUE (default) the file is opened in the editor.
<code>overwrite</code>	A logical value. If this file is already present and <code>overwrite = TRUE</code> , it will be erased and replaced. Default is FALSE.
<code>quiet</code>	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other development functions: `add_dependencies()`, `add_github_actions_check()`, `add_github_actions_citation()`, `add_github_actions_document()`, `add_github_actions_pkgdown()`, `add_github_actions_render()`, `add_r_depend()`, `add_to_buildignore()`, `add_to_gitignore()`

## Examples

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



---

add\_github\_actions\_codecov\_badge  
*Add a Test coverage badge*

---

## Description

This function adds a **Test coverage** badge to the README.Rmd. This function must be run after [add\\_github\\_actions\\_codecov\(\)](#) which will setup GitHub Actions to report the percentage of code cover by units tests.

Make sure that 1) a README.Rmd file exists at the project root and 2) it contains a block starting with the line `<!-- badges: start -->` and ending with the line `<!-- badges: end -->`.

Don't forget to re-render the README.md.

## Usage

```
add_github_actions_codecov_badge(organisation = NULL, quiet = FALSE)
```

## Arguments

organisation	A character of length 1. The name of the GitHub organisation to host the package. If NULL (default) the GitHub account will be used.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

A badge as a markdown expression.

## See Also

Other adding badges: [add\\_codecov\\_badge\(\)](#), [add\\_cran\\_badge\(\)](#), [add\\_dependencies\\_badge\(\)](#), [add\\_github\\_actions\\_check\\_badge\(\)](#), [add\\_github\\_actions\\_pkgdown\\_badge\(\)](#), [add\\_license\\_badge\(\)](#), [add\\_lifecycle\\_badge\(\)](#), [add\\_repostatus\\_badge\(\)](#)

## Examples

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

---

`add_github_actions_document`*Setup GitHub Actions to document package*

---

### Description

This function creates a configuration file (.yaml) to setup GitHub Actions to document the package and update the Rd files in the man/, the NAMESPACE and DESCRIPTION files. This workflow is derived from <https://github.com/r-lib/actions/tree/v2-branch/examples>. This file will be written as .github/workflows/document-package.yaml.

### Usage

```
add_github_actions_document(open = FALSE, overwrite = FALSE, quiet = FALSE)
```

### Arguments

<code>open</code>	A logical value. If TRUE (default) the file is opened in the editor.
<code>overwrite</code>	A logical value. If this file is already present and <code>overwrite = TRUE</code> , it will be erased and replaced. Default is FALSE.
<code>quiet</code>	A logical value. If TRUE messages are deleted. Default is FALSE.

### Value

No return value.

### See Also

Other development functions: [add\\_dependencies\(\)](#), [add\\_github\\_actions\\_check\(\)](#), [add\\_github\\_actions\\_citation\(\)](#), [add\\_github\\_actions\\_codecov\(\)](#), [add\\_github\\_actions\\_pkgdown\(\)](#), [add\\_github\\_actions\\_render\(\)](#), [add\\_r\\_depend\(\)](#), [add\\_to\\_buildignore\(\)](#), [add\\_to\\_gitignore\(\)](#)

### Examples

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

---

`add_github_actions_pkgdown`*Setup GitHub Actions to build and deploy package website*

---

## Description

This function creates a configuration file (.yaml) to setup GitHub Actions to automatically build and deploy the website using `pkgdown`. This workflow is derived from <https://github.com/r-lib/actions/tree/v2-branch/examples>. This file will be written as `.github/workflows/pkgdown.yaml`. An additional empty file (`_pkgdown.yaml`) will also be written: it can be used to customize the website.

## Usage

```
add_github_actions_pkgdown(open = FALSE, overwrite = FALSE, quiet = FALSE)
```

## Arguments

<code>open</code>	A logical value. If TRUE (default) the file is opened in the editor.
<code>overwrite</code>	A logical value. If this file is already present and <code>overwrite = TRUE</code> , it will be erased and replaced. Default is FALSE.
<code>quiet</code>	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other development functions: `add_dependencies()`, `add_github_actions_check()`, `add_github_actions_citation()`, `add_github_actions_codecov()`, `add_github_actions_document()`, `add_github_actions_render()`, `add_r_depend()`, `add_to_buildignore()`, `add_to_gitignore()`

## Examples

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

---

add\_github\_actions\_pkgdown\_badge  
*Add a Website badge*

---

### Description

This function adds a **Website** badge to the README.Rmd. This function must be run after [add\\_github\\_actions\\_pkgdown\(\)](#) which will setup GitHub Actions to build and deploy the package website.

Make sure that 1) a README.Rmd file exists at the project root and 2) it contains a block starting with the line `<!-- badges: start -->` and ending with the line `<!-- badges: end -->`.

Don't forget to re-render the README.md.

### Usage

```
add_github_actions_pkgdown_badge(organisation = NULL, quiet = FALSE)
```

### Arguments

**organisation** A character of length 1. The name of the GitHub organisation to host the package. If NULL (default) the GitHub account will be used.

**quiet** A logical value. If TRUE messages are deleted. Default is FALSE.

### Value

A badge as a markdown expression.

### See Also

Other adding badges: [add\\_codecov\\_badge\(\)](#), [add\\_cran\\_badge\(\)](#), [add\\_dependencies\\_badge\(\)](#), [add\\_github\\_actions\\_check\\_badge\(\)](#), [add\\_github\\_actions\\_codecov\\_badge\(\)](#), [add\\_license\\_badge\(\)](#), [add\\_lifecycle\\_badge\(\)](#), [add\\_repostatus\\_badge\(\)](#)

### Examples

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

---

`add_github_actions_render`*Setup GitHub Actions to render README*

---

## Description

This function creates a configuration file (.yaml) to setup GitHub Actions to automatically knit the README.Rmd after a push. This workflow will be triggered only if the README.Rmd has been modified since the last commit. This workflow is derived from <https://github.com/r-lib/actions/tree/v2-branch/examples>. This file will be written as .github/workflows/render-README.yaml.

## Usage

```
add_github_actions_render(open = FALSE, overwrite = FALSE, quiet = FALSE)
```

## Arguments

<code>open</code>	A logical value. If TRUE (default) the file is opened in the editor.
<code>overwrite</code>	A logical value. If this file is already present and <code>overwrite = TRUE</code> , it will be erased and replaced. Default is FALSE.
<code>quiet</code>	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other development functions: `add_dependencies()`, `add_github_actions_check()`, `add_github_actions_citation()`, `add_github_actions_codecov()`, `add_github_actions_document()`, `add_github_actions_pkgdown()`, `add_r_depend()`, `add_to_buildignore()`, `add_to_gitignore()`

## Examples

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

---

`add_license`*Add a LICENSE*

---

### Description

This function adds a license to the project. It will add the license name in the License field of the DESCRIPTION file and write the content of the license in the License.md file.

### Usage

```
add_license(license = NULL, given = NULL, family = NULL, quiet = FALSE)
```

### Arguments

<code>license</code>	A character of length 1. The chosen license. Run <a href="#">get_licenses()</a> to select an appropriate one.
<code>given</code>	A character of length 1. The given name of the copyright holder. Only required if <code>license = 'MIT'</code> . If is NULL (default) and <code>license = 'MIT'</code> , this function will try to retrieve the value of this parameter from the .Rprofile file (edited with <a href="#">set_credentials()</a> ).
<code>family</code>	A character of length 1. The family name of the copyright holder. Only required if <code>license = 'MIT'</code> . If is NULL (default) and <code>license = 'MIT'</code> , this function will try to retrieve the value of this parameter from the .Rprofile file (edited with <a href="#">set_credentials()</a> ).
<code>quiet</code>	A logical value. If TRUE messages are deleted. Default is FALSE.

### Value

No return value.

### See Also

Other create files: [add\\_citation\(\)](#), [add\\_code\\_of\\_conduct\(\)](#), [add\\_compendium\(\)](#), [add\\_contributing\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_makefile\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_renv\(\)](#), [add\\_testthat\(\)](#), [add\\_vignette\(\)](#)

### Examples

```
## Not run:  
add_license(license = "MIT")  
add_license(license = "GPL (>= 2)")  
  
## End(Not run)
```

---

add_license_badge	<i>Add a License badge</i>
-------------------	----------------------------

---

## Description

This function adds or updates the **License** badge to the README.Rmd. This function reads the License field of the DESCRIPTION file. Ensure that this field is correctly defined. See [add\\_license\(\)](#) for further detail.

This function requires the presence of a DESCRIPTION file at the project root. See [add\\_description\(\)](#) for further detail.

Make sure that 1) a README.Rmd file exists at the project root and 2) it contains a block starting with the line `<!-- badges: start -->` and ending with the line `<!-- badges: end -->`.

Don't forget to re-render the README.md.

## Usage

```
add_license_badge(quiet = FALSE)
```

## Arguments

`quiet` A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

A badge as a markdown expression.

## See Also

Other adding badges: [add\\_codecov\\_badge\(\)](#), [add\\_cran\\_badge\(\)](#), [add\\_dependencies\\_badge\(\)](#), [add\\_github\\_actions\\_check\\_badge\(\)](#), [add\\_github\\_actions\\_codecov\\_badge\(\)](#), [add\\_github\\_actions\\_pkgdown\\_badge\(\)](#), [add\\_lifecycle\\_badge\(\)](#), [add\\_repostatus\\_badge\(\)](#)

## Examples

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

---

add\_lifecycle\_badge *Add a Life Cycle badge*

---

## Description

This function adds or updates the **Life Cycle** badge to the README.Rmd. It is based on the standard defined at <https://lifecycle.r-lib.org/articles/stages.html>.

Make sure that 1) a README.Rmd file exists at the project root and 2) it contains a block starting with the line `<!-- badges: start -->` and ending with the line `<!-- badges: end -->`.

Don't forget to re-render the README.md.

## Usage

```
add_lifecycle_badge(lifecycle = "experimental", quiet = FALSE)
```

## Arguments

lifecycle	A character of length 1. Accepted stages are: 'experimental' (default), 'stable', 'deprecated', or 'superseded'.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

## Details

The project can have the following life cycle stage:

- **Experimental** - An experimental project is made available so user can try it out and provide feedback, but come with no promises for long term stability.
- **Stable** - A project is considered stable when the author is happy with its interface, does not see major issues, and is happy to share it with the world.
- **Superseded** - A superseded project has a known better alternative, and it is not going away. Superseded project will not receive new features, but will receive any critical bug fixes needed to keep it working.
- **Deprecated** - A deprecated project has a better alternative available and is scheduled for removal.

## Value

A badge as a markdown expression.

## See Also

Other adding badges: [add\\_codecov\\_badge\(\)](#), [add\\_cran\\_badge\(\)](#), [add\\_dependencies\\_badge\(\)](#), [add\\_github\\_actions\\_check\\_badge\(\)](#), [add\\_github\\_actions\\_codecov\\_badge\(\)](#), [add\\_github\\_actions\\_pkgdown\\_badge\(\)](#), [add\\_license\\_badge\(\)](#), [add\\_repostatus\\_badge\(\)](#)



## Examples

```
## Not run:
add_lifecycle_badge()
add_lifecycle_badge(lifecycle = "stable")

## End(Not run)
```

---

add_makefile	<i>Create a Make-like R file</i>
--------------	----------------------------------

---

## Description

This function creates a Make-like R file (make.R) at the root of the project based on a template. To be used only if the project is a research compendium. The content of this file provides some guidelines. See also [new\\_compendium\(\)](#) for further information.

## Usage

```
add_makefile(
  given = NULL,
  family = NULL,
  email = NULL,
  open = TRUE,
  overwrite = FALSE,
  quiet = FALSE
)
```

## Arguments

given	A character of length 1. The given name of the project maintainer.
family	A character of length 1. The family name of the project maintainer.
email	A character of length 1. The email address of the project maintainer.
open	A logical value. If TRUE (default) the file is opened in the editor.
overwrite	A logical value. If this file is already present and overwrite = TRUE, it will be erased and replaced. Default is FALSE.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other create files: [add\\_citation\(\)](#), [add\\_code\\_of\\_conduct\(\)](#), [add\\_compendium\(\)](#), [add\\_contributing\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_renv\(\)](#), [add\\_testthat\(\)](#), [add\\_vignette\(\)](#)

## Examples

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

---

add_package_doc	<i>Create a package-level documentation file</i>
-----------------	--

---

## Description

This function adds a package-level documentation file (pkg-package.R) in the R/ folder. This file will make help available to the user via ?pkg (where pkg is the name of the package). It a good place to put general directives like @import and @importFrom.

## Usage

```
add_package_doc(open = TRUE, overwrite = FALSE, quiet = FALSE)
```

## Arguments

open	A logical value. If TRUE (default) the file is opened in the editor.
overwrite	A logical value. If this file is already present and overwrite = TRUE, it will be erased and replaced. Default is FALSE.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other create files: [add\\_citation\(\)](#), [add\\_code\\_of\\_conduct\(\)](#), [add\\_compendium\(\)](#), [add\\_contributing\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_makefile\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_renv\(\)](#), [add\\_testthat\(\)](#), [add\\_vignette\(\)](#)

## Examples

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

---

add_readme_rmd	<i>Create a README file</i>
----------------	-----------------------------

---

### Description

This function creates a `README.Rmd` file at the root of the project based on a template. Once edited user needs to knit it into a `README.md` (or use the function [refresh\(\)](#)).

### Usage

```
add_readme_rmd(  
  type = "package",  
  given = NULL,  
  family = NULL,  
  organisation = NULL,  
  open = TRUE,  
  overwrite = FALSE,  
  quiet = FALSE  
)
```

### Arguments

<code>type</code>	A character of length 1. If <code>package</code> (default) a GitHub <code>README.Rmd</code> specific to an R package will be created. If <code>compendium</code> a GitHub <code>README.Rmd</code> specific to a research compendium will be created.
<code>given</code>	A character of length 1. The given name of the project maintainer.
<code>family</code>	A character of length 1. The family name of the project maintainer.
<code>organisation</code>	A character of length 1. The name of the GitHub organisation to host the package. If <code>NULL</code> (default) the GitHub account will be used. This argument is used to set the URL of the package (hosted on GitHub).
<code>open</code>	A logical value. If <code>TRUE</code> (default) the file is opened in the editor.
<code>overwrite</code>	A logical value. If this file is already present and <code>overwrite = TRUE</code> , it will be erased and replaced. Default is <code>FALSE</code> .
<code>quiet</code>	A logical value. If <code>TRUE</code> messages are deleted. Default is <code>FALSE</code> .

### Value

No return value.

### See Also

Other create files: [add\\_citation\(\)](#), [add\\_code\\_of\\_conduct\(\)](#), [add\\_compendium\(\)](#), [add\\_contributing\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_makefile\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_renv\(\)](#), [add\\_testthat\(\)](#), [add\\_vignette\(\)](#)

## Examples

```
## Not run:  
add_readme_rmd(type = "package")  
  
## End(Not run)
```

---

add\_renv

*Initialize renv*

---

## Description

This function initializes an renv environment for the project by running `renv::init()`. See <https://rstudio.github.io/renv/> for further detail.

## Usage

```
add_renv(quiet = FALSE)
```

## Arguments

`quiet` A logical value. If TRUE messages are deleted. Default is FALSE.

## Value

No return value.

## See Also

Other create files: [add\\_citation\(\)](#), [add\\_code\\_of\\_conduct\(\)](#), [add\\_compendium\(\)](#), [add\\_contributing\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_makefile\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_testthat\(\)](#), [add\\_vignette\(\)](#)

## Examples

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

---

add\_repostatus\_badge *Add a Repository Status badge*

---

### Description

This function adds or updates the **Repository Status** badge of the project to the README.Rmd. It is based on the standard defined by the <https://www.repostatus.org> project.

Make sure that 1) a README.Rmd file exists at the project root and 2) it contains a block starting with the line `<!-- badges: start -->` and ending with the line `<!-- badges: end -->`.

Don't forget to re-render the README.md.

### Usage

```
add_repostatus_badge(status = "concept", quiet = FALSE)
```

### Arguments

status	A character of length 1. Accepted status are: 'concept' (default), 'wip', 'suspended', 'abandoned', 'active', 'inactive', or 'unsupported'.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

### Details

The project can have the following status:

- **Concept** - Minimal or no implementation has been done yet, or the repository is only intended to be a limited example, demo, or proof-of-concept.
- **WIP** - Initial development is in progress, but there has not yet been a stable, usable release suitable for the public.
- **Suspended** - Initial development has started, but there has not yet been a stable, usable release; work has been stopped for the time being but the author(s) intend on resuming work.
- **Abandoned** - Initial development has started, but there has not yet been a stable, usable release; the project has been abandoned and the author(s) do not intend on continuing development.
- **Active** - The project has reached a stable, usable state and is being actively developed.
- **Inactive** - The project has reached a stable, usable state but is no longer being actively developed; support/maintenance will be provided as time allows.
- **Unsupported** - The project has reached a stable, usable state but the author(s) have ceased all work on it. A new maintainer may be desired.

### Value

A badge as a markdown expression.

**See Also**

Other adding badges: [add\\_codecov\\_badge\(\)](#), [add\\_cran\\_badge\(\)](#), [add\\_dependencies\\_badge\(\)](#), [add\\_github\\_actions\\_check\\_badge\(\)](#), [add\\_github\\_actions\\_codecov\\_badge\(\)](#), [add\\_github\\_actions\\_pkgdown\\_badge\(\)](#), [add\\_license\\_badge\(\)](#), [add\\_lifecycle\\_badge\(\)](#)

**Examples**

```
## Not run:
add_repostatus_badge()
add_repostatus_badge(status = "active")

## End(Not run)
```

---

add\_r\_depend

*Add minimal R version to DESCRIPTION*

---

**Description**

This function adds the minimal R version to the Depends field of the DESCRIPTION file. This version corresponds to the higher version of R among all dependencies. If no dependencies mentions minimal R version, the DESCRIPTION is not modified.

**Usage**

```
add_r_depend()
```

**Value**

No return value.

**See Also**

Other development functions: [add\\_dependencies\(\)](#), [add\\_github\\_actions\\_check\(\)](#), [add\\_github\\_actions\\_citation\(\)](#), [add\\_github\\_actions\\_codecov\(\)](#), [add\\_github\\_actions\\_document\(\)](#), [add\\_github\\_actions\\_pkgdown\(\)](#), [add\\_github\\_actions\\_render\(\)](#), [add\\_to\\_buildignore\(\)](#), [add\\_to\\_gitignore\(\)](#)

**Examples**

```
## Not run:
add_r_depend()

## End(Not run)
```

---

add_testthat	<i>Initialize units tests</i>
--------------	-------------------------------

---

### Description

This function initializes units tests settings by running `usethis::use_testthat()` and by adding an example units tests file `tests/testthat/test-demo.R`. The sample file will test a demo function created in `R/fun-demo.R`.

### Usage

```
add_testthat()
```

### Value

No return value.

### See Also

Other create files: [add\\_citation\(\)](#), [add\\_code\\_of\\_conduct\(\)](#), [add\\_compendium\(\)](#), [add\\_contributing\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_makefile\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_renv\(\)](#), [add\\_vignette\(\)](#)

### Examples

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

---

add_to_buildignore	<i>Add to the .Rbuildignore file</i>
--------------------	--------------------------------------

---

### Description

This function adds files/folders to the `.Rbuildignore` file. If a `.Rbuildignore` is already present, files to be ignored while checking package are just added to this file. Otherwise a new file is created.

### Usage

```
add_to_buildignore(x, open = FALSE, quiet = FALSE)
```

**Arguments**

x	A character vector. One or several files/folders names to be added to the .Rbuildignore. This argument is mandatory.
open	A logical value. If TRUE the .Rbuildignore file is opened in the editor. Default is FALSE.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

**Value**

No return value.

**See Also**

Other development functions: [add\\_dependencies\(\)](#), [add\\_github\\_actions\\_check\(\)](#), [add\\_github\\_actions\\_citation\(\)](#), [add\\_github\\_actions\\_codecov\(\)](#), [add\\_github\\_actions\\_document\(\)](#), [add\\_github\\_actions\\_pkgdown\(\)](#), [add\\_github\\_actions\\_render\(\)](#), [add\\_r\\_depend\(\)](#), [add\\_to\\_gitignore\(\)](#)

**Examples**

```
## Not run:
add_to_buildignore(open = TRUE)
add_to_buildignore(".DS_Store")

## End(Not run)
```

---

add\_to\_gitignore      *Add to the .gitignore file*

---

**Description**

This function creates a .gitignore file at the root of the project based on a template (specific to R). If a .gitignore is already present, files to be untracked by **git** are just added to this file.

**Usage**

```
add_to_gitignore(x, open = FALSE, quiet = FALSE)
```

**Arguments**

x	A character vector. One or several files/folders names to be added to the .gitignore.
open	A logical value. If TRUE the .gitignore file is opened in the editor. Default is FALSE.
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

**Value**

No return value.



**See Also**

Other development functions: [add\\_dependencies\(\)](#), [add\\_github\\_actions\\_check\(\)](#), [add\\_github\\_actions\\_citation\(\)](#), [add\\_github\\_actions\\_codecov\(\)](#), [add\\_github\\_actions\\_document\(\)](#), [add\\_github\\_actions\\_pkgdown\(\)](#), [add\\_github\\_actions\\_render\(\)](#), [add\\_r\\_depend\(\)](#), [add\\_to\\_buildignore\(\)](#)

**Examples**

```
## Not run:
add_to_gitignore(open = TRUE)
add_to_gitignore(".DS_Store")

## End(Not run)
```

---

add_vignette	<i>Create a vignette document</i>
--------------	-----------------------------------

---

**Description**

This function adds a vignette in the folder `vignettes/`. It also adds dependencies `knitr` and `rmarkdown` in the field `Suggests` of the `DESCRIPTION` file (if not already present in fields `Imports`).

**Usage**

```
add_vignette(
  filename = NULL,
  title = NULL,
  open = TRUE,
  overwrite = FALSE,
  quiet = FALSE
)
```

**Arguments**

filename	A character of length 1. The name of the <code>.Rmd</code> file to be created. If <code>NULL</code> (default) the <code>.Rmd</code> file will be named <code>pkg.Rmd</code> where <code>pkg</code> is your package name.
title	A character of length 1. The title of the vignette. If <code>NULL</code> (default) the title will be <code>Get started</code> .
open	A logical value. If <code>TRUE</code> (default) the file is opened in the editor.
overwrite	A logical value. If this file is already present and <code>overwrite = TRUE</code> , it will be erased and replaced. Default is <code>FALSE</code> .
quiet	A logical value. If <code>TRUE</code> messages are deleted. Default is <code>FALSE</code> .

**Value**

No return value.

**See Also**

Other create files: [add\\_citation\(\)](#), [add\\_code\\_of\\_conduct\(\)](#), [add\\_compendium\(\)](#), [add\\_contributing\(\)](#), [add\\_description\(\)](#), [add\\_dockerfile\(\)](#), [add\\_license\(\)](#), [add\\_makefile\(\)](#), [add\\_package\\_doc\(\)](#), [add\\_readme\\_rmd\(\)](#), [add\\_renv\(\)](#), [add\\_testthat\(\)](#)

**Examples**

```
## Not run:
## Default vignette ----
add_vignette()

## Default vignette ----
add_vignette(filename = "pkg", title = "Get started")

## End(Not run)
```

---

get\_all\_dependencies *Get all external dependencies*

---

**Description**

This function gets all the external packages that the project needs. It is used to generate the *Dependencies* badge ([add\\_dependencies\\_badge\(\)](#)).

**Usage**

```
get_all_dependencies(pkg = NULL)
```

**Arguments**

pkg	A character of length 1. The name of a CRAN package or NULL (default). If NULL get dependencies of the local (uninstalled) project (package or compendium).
-----	---

**Value**

A list of three vectors:

- base\_deps, a vector of base packages;
- direct\_deps, a vector of direct packages;
- all\_deps, a vector of all dependencies (recursively obtained).

**See Also**

Other utilities functions: [get\\_all\\_functions\(\)](#), [get\\_licenses\(\)](#), [get\\_minimal\\_r\\_version\(\)](#)

**Examples**

```
## Not run:
## Update dependencies ----
add_dependencies()

## Get all dependencies ----
deps <- get_all_dependencies()
unlist(lapply(deps, length))

## Can be used for a CRAN package ----
deps <- get_all_dependencies("usethis")
unlist(lapply(deps, length))

## End(Not run)
```

---

get\_all\_functions      *List all functions in the package*

---

**Description**

This function returns a list of all the functions (exported and internal) available with the package. As this function scans the NAMESPACE and the R/ folder, it is recommended to run `devtools::document()` before.

**Usage**

```
get_all_functions()
```

**Value**

A list of two vectors:

- external, a vector of exported functions name;
- internal, a vector of internal functions name.

**See Also**

Other utilities functions: `get_all_dependencies()`, `get_licenses()`, `get_minimal_r_version()`

**Examples**

```
## Not run:
## Update NAMESPACE ----
devtools::document()

## List all implemented functions ----
get_all_functions()

## End(Not run)
```

---

get_licenses	<i>List all available licenses</i>
--------------	------------------------------------

---

**Description**

This function returns a list of all available licenses. This is particularly useful to get the right spelling of the license to be passed to `new_package()`, `new_compendium()`, or `add_license()`.

**Usage**

```
get_licenses()
```

**Value**

A data.frame with the following two variables:

- tag, the license name to be used with `add_license()`;
- url, the URL of the license description.

**See Also**

Other utilities functions: `get_all_dependencies()`, `get_all_functions()`, `get_minimal_r_version()`

**Examples**

```
get_licenses()
```

---

get_minimal_r_version	<i>Get required minimal R version</i>
-----------------------	---------------------------------------

---

**Description**

This function detects the minimal required R version for the project based on minimal required R version of its dependencies. It can be used to update the Depends field of the DESCRIPTION file.

**Usage**

```
get_minimal_r_version(pkg = NULL)
```

**Arguments**

pkg	A character of length 1. The name of a CRAN package or NULL (default). If NULL get minimal required R version of the local (uninstalled) project (package or compendium).
-----	---

**Value**

A character with the minimal required R version.

**See Also**

Other utilities functions: [get\\_all\\_dependencies\(\)](#), [get\\_all\\_functions\(\)](#), [get\\_licenses\(\)](#)

**Examples**

```
## Not run:
## Update dependencies ----
add_dependencies()

## Minimal R version of a project ----
get_minimal_r_version()

## Minimal R version of a CRAN package ----
get_minimal_r_version("usethis")

## End(Not run)
```

---

new\_compendium

*Create an R compendium structure*

---

**Description**

This function creates a research compendium (i.e. a predefined files/folders structure) to help user organizing files/folders to run analysis.

In addition to common R packages files/folders (see [new\\_package\(\)](#) for further information) this function will create these following folders:

- `data/`: a folder to store raw data. Note that these data must never be modified. If user want to modify them it is recommended to export new data in `outputs/`.
- `analyses/`: a folder to write analyses instructions, i.e. R scripts. If user need to create R functions it is recommended to write them in the `R/` folder.
- `outputs/`: a folder to store intermediate and final outputs generated by the R scripts.
- `figures/`: a folder to store figures generated by the R scripts.

This function also creates a Make-like R file (`make.R`). This file contains two main lines:

- `devtools::install_deps()`: downloads the external dependencies required by the project (an alternative to `install.packages()`). Ideal for sharing;
- `devtools::load_all()`: loads external dependencies and R functions (an alternative to `library()` and `source()` respectively).

As the user writes R scripts he/she can add the following line in this file: `source(here::here("rscripts", "script_X.R"))`. Then he/she can source the entire `make.R` to run analysis. The function `add_dependencies()` can be used to automatically add external dependencies in the DESCRIPTION file.

It is recommended, for a better reproducibility, to call external dependencies as `pkg::fun()` or with `@import` or `@importFrom` in R functions instead of using `library()`.

All these files/folders are added to the `.Rbuildignore` so the rest of the project (e.g. R functions) can be used (or installed) as a R package.

## Usage

```
new_compendium(
  compendium = NULL,
  license = "GPL (>= 2)",
  status = NULL,
  lifecycle = NULL,
  contributing = TRUE,
  code_of_conduct = TRUE,
  vignette = FALSE,
  test = FALSE,
  create_repo = TRUE,
  private = FALSE,
  gh_check = FALSE,
  codecov = FALSE,
  website = FALSE,
  gh_render = FALSE,
  gh_citation = FALSE,
  given = NULL,
  family = NULL,
  email = NULL,
  orcid = NULL,
  organisation = NULL,
  renv = FALSE,
  dockerfile = FALSE,
  overwrite = FALSE,
  quiet = FALSE
)
```

## Arguments

<code>compendium</code>	A character vector specifying the folders to be created. See <code>add_compendium()</code> for further information.
<code>license</code>	A character vector of length 1. The license to be used for this project. Run <code>get_licenses()</code> to choose an appropriate one. Default is <code>license = 'GPL (&gt;= 2)'</code> The license can be changed later by calling <code>add_license()</code> (and <code>add_license_badge()</code> or <code>refresh()</code> to update the corresponding badge in the README).
<code>status</code>	A character vector of length 1. The status of the project according to the standard defined by the <a href="https://www.repostatus.org">https://www.repostatus.org</a> project. One among 'concept',

	'wip', 'suspended', 'abandoned', 'active', 'inactive', or 'unsupported'. See <a href="#">add_repostatus_badge()</a> for further information.
	This argument is used to add a badge to the README.Rmd to help visitors to better understand your project. Default is status = NULL.
	This status can be added/changed later by using <a href="#">add_repostatus_badge()</a> .
lifecycle	A character vector of length 1. The life cycle stage of the project according to the standard defined at <a href="https://lifecycle.r-lib.org/articles/stages.html">https://lifecycle.r-lib.org/articles/stages.html</a> . One among 'experimental', 'stable', 'deprecated', or 'superseded'. See <a href="#">add_lifecycle_badge()</a> for further information.
	This argument is used to add a badge to the README.Rmd to help visitors to better understand your project. Default is lifecycle = NULL.
	This stage can be added/changed later by using <a href="#">add_lifecycle_badge()</a> .
contributing	A logical value. If TRUE (default) adds a CONTRIBUTING.md file and ISSUE_TEMPLATES. See <a href="#">add_contributing()</a> for further information.
code_of_conduct	A logical value. If TRUE (default) adds a CODE_OF_CONDUCT.md file. See <a href="#">add_code_of_conduct()</a> for further information.
vignette	A logical value. If TRUE creates a vignette in vignettes/. Packages <code>knitr</code> and <code>rmarkdown</code> are also added to the Suggests field in the DESCRIPTION file. Default is FALSE.
test	A logical value. If TRUE initializes units tests by running <code>usethis::use_testthat()</code> . Package <code>testthat</code> is also added to the Suggests field in the DESCRIPTION file. Default is FALSE.
create_repo	A logical value. If TRUE (default) creates a repository (public if private = FALSE or private if private = TRUE) on GitHub. See the section <b>Creating a GitHub repo</b> of the help page of <a href="#">new_package()</a> .
private	A logical value. If TRUE creates a private repository on user GitHub account (or organisation). Default is private = FALSE.
gh_check	A logical value. If TRUE configures GitHub Actions to automatically check and test the package after each push. This will run R CMD check on the three major operating systems (Ubuntu, macOS, and Windows) on the latest release of R. See <a href="#">add_github_actions_check()</a> for further information.
	If create_repo = FALSE this argument is ignored. Default is FALSE.
codecov	A logical value. If TRUE configures GitHub Actions to automatically report the code coverage of units tests after each push. See <a href="#">add_github_actions_codecov()</a> for further information.
	If create_repo = FALSE this argument is ignored. Default is FALSE.
website	A logical value. If TRUE configures GitHub Actions to automatically build and deploy the package website (using <code>pkgdown</code> ) after each push. A <b>gh-pages</b> branch will be created using <code>usethis::use_github_pages()</code> and the GitHub repository will be automatically configured to deploy website.
	If create_repo = FALSE this argument is ignored. Default is FALSE.
gh_render	A logical value. If TRUE configures GitHub Actions to automatically knit the README.Rmd after each push. See <a href="#">add_github_actions_render()</a> for further information.
	If create_repo = FALSE this argument is ignored. Default is FALSE.

gh_citation	A logical value. If TRUE configures GitHub Actions to automatically update the CITATION.cff file. See <a href="#">add_github_actions_citation()</a> for further information. If create_repo = FALSE this argument is ignored. Default is FALSE.
given	A character vector of length 1. The given name of the maintainer of the package. If NULL (default) the function will try to get this value by reading the .Rprofile file. For further information see <a href="#">set_credentials()</a> .
family	A character vector of length 1. The family name of the maintainer of the package. If NULL (default) the function will try to get this value by reading the .Rprofile file. For further information see <a href="#">set_credentials()</a> .
email	A character vector of length 1. The email address of the maintainer of the package. If NULL (default) the function will try to get this value by reading the .Rprofile file. For further information see <a href="#">set_credentials()</a> .
orcid	A character vector of length 1. The ORCID of the maintainer of the package. If NULL (default) the function will try to get this value by reading the .Rprofile file. For further information see <a href="#">set_credentials()</a> .
organisation	A character vector of length 1. The GitHub organisation to host the repository. If defined it will overwrite the GitHub pseudo. Default is organisation = NULL (the GitHub pseudo will be used).
renv	A logical value. If TRUE initializes an renv environment for the project by running <a href="#">renv::init()</a> . Package <a href="#">renv</a> is also added to the Imports field in the DESCRIPTION file. Default is FALSE.
dockerfile	A logical value. If TRUE creates an Dockerfile for the project. See <a href="#">add_dockerfile()</a> for further detail. Default is FALSE.
overwrite	A logical value. If TRUE files written from templates and modified by user are erased. Default is overwrite = FALSE. <b>Be careful while using this argument.</b>
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

**Value**

No return value.

**See Also**

Other setup functions: [new\\_package\(\)](#), [refresh\(\)](#), [set\\_credentials\(\)](#)

**Examples**

```
## Not run:
library(rcompendium)

## Define **ONCE FOR ALL** your credentials ----
```



```
set_credentials(given = "John", family = "Doe",
               email = "john.doe@domain.com",
               orcid = "9999-9999-9999-9999", protocol = "ssh")

## Create an R package ----
new_compendium()

## Start adding data and developing functions and scripts ----
## ...

## Update package (documentation, dependencies, README, check) ----
refresh()

## End(Not run)
```

---

new\_package

*Create an R package structure*

---

## Description

This function creates a new R package structure according to the current best practices. Essential features of an R package are created (DESCRIPTION and NAMESPACE files, and R/ and man/ folders). The project is also **versioned with git** and a generic R .gitignore is added.

**IMPORTANT** - Before using this function user needs to create a new folder (or a new project if using RStudio) and run this function inside this folder (by using `setwd()` or by opening the Rproj in a new RStudio session). **The name of the package will be the same as the name of this folder.** Some rules must be respected: <https://r-pkgs.org/workflow101.html#name-your-package>.

Some fields of the DESCRIPTION file (maintainer information, package name, license, URLs, and roxygen2 version) are automatically filled but others (like title and description) need to be edited manually.

Additional features are also created: a CITATION file, a README.Rmd, and tests/ and vignettes/ folders (optional). See the vignette [Get started](#) for a complete overview of the full structure.

A GitHub repository can also be created (default) following the "GitHub last" workflow (<https://happygitwithr.com/existing-github-last.html>). Configuration files for GitHub Actions to automatically 1) check the package, 2) test and report code coverage, and 3) deploy the website using `pkgdown` will be added in the .github/ folder. See below the section **Creating a GitHub repo**.

## Usage

```
new_package(
  license = "GPL (>= 2)",
  status = NULL,
  lifecycle = NULL,
  contributing = TRUE,
  code_of_conduct = TRUE,
  vignette = TRUE,
```

```

test = TRUE,
create_repo = TRUE,
private = FALSE,
gh_check = TRUE,
codecov = TRUE,
website = TRUE,
gh_render = TRUE,
gh_citation = TRUE,
given = NULL,
family = NULL,
email = NULL,
orcid = NULL,
organisation = NULL,
overwrite = FALSE,
quiet = FALSE
)

```

## Arguments

license	<p>A character vector of length 1. The license to be used for this package. Run <a href="#">get_licenses()</a> to choose an appropriate one. Default is license = 'GPL (&gt;= 2)'</p> <p>The license can be changed later by calling <a href="#">add_license()</a> (and <a href="#">add_license_badge()</a> or <a href="#">refresh()</a> to update the corresponding badge in the README).</p>
status	<p>A character vector of length 1. The status of the project according to the standard defined by the <a href="https://www.repostatus.org">https://www.repostatus.org</a> project. One among 'concept', 'wip', 'suspended', 'abandoned', 'active', 'inactive', or 'unsupported'. See <a href="#">add_repostatus_badge()</a> for further information.</p> <p>This argument is used to add a badge to the README.Rmd to help visitors to better understand your project. If you don't want this badge use status = NULL (default).</p> <p>This status can be added/changed later by using <a href="#">add_repostatus_badge()</a>.</p>
lifecycle	<p>A character vector of length 1. The life cycle stage of the project according to the standard defined at <a href="https://lifecycle.r-lib.org/articles/stages.html">https://lifecycle.r-lib.org/articles/stages.html</a>. One among 'experimental', 'stable', 'deprecated', or 'superseded'. See <a href="#">add_lifecycle_badge()</a> for further information.</p> <p>This argument is used to add a badge to the README.Rmd to help visitors to better understand your project. If you don't want this badge use lifecycle = NULL (default).</p> <p>This stage can be added/changed later by using <a href="#">add_lifecycle_badge()</a>.</p>
contributing	<p>A logical value. If TRUE (default) adds a CONTRIBUTING.md file and ISSUE_TEMPLATES. See <a href="#">add_contributing()</a> for further information.</p>
code_of_conduct	<p>A logical value. If TRUE (default) adds a CODE_OF_CONDUCT.md file. See <a href="#">add_code_of_conduct()</a> for further information.</p>
vignette	<p>A logical value. If TRUE (default) creates a vignette in vignettes/. Packages <a href="#">knitr</a> and <a href="#">rmarkdown</a> are also added to the Suggests field in the DESCRIPTION file.</p>

test	A logical value. If TRUE (default) initializes units tests by running <code>usethis::use_testthat()</code> . Package <code>testthat</code> is also added to the Suggests field in the DESCRIPTION file.
create_repo	A logical value. If TRUE (default) creates a repository (public if <code>private = FALSE</code> or private if <code>private = TRUE</code> ) on GitHub. See below the section <b>Creating a GitHub repo</b> .
private	A logical value. If TRUE creates a private repository on user GitHub account (or organisation). Default is <code>private = FALSE</code> .
gh_check	A logical value. If TRUE (default) configures GitHub Actions to automatically check and test the package after each push. This will run R CMD check on the three major operating systems (Ubuntu, macOS, and Windows) on the latest release of R. See <code>add_github_actions_check()</code> for further information. If <code>create_repo = FALSE</code> this argument is ignored.
codecov	A logical value. If TRUE (default) configures GitHub Actions to automatically report the code coverage of units tests after each push. See <code>add_github_actions_codecov()</code> for further information. If <code>create_repo = FALSE</code> this argument is ignored.
website	A logical value. If TRUE (default) configures GitHub Actions to automatically build and deploy the package website (using <code>pkgdown</code> ) after each push. A <b>gh-pages</b> branch will be created using <code>usethis::use_github_pages()</code> and the GitHub repository will be automatically configured to deploy website. If <code>create_repo = FALSE</code> this argument is ignored.
gh_render	A logical value. If TRUE (default) configures GitHub Actions to automatically knit the README.Rmd after each push. See <code>add_github_actions_render()</code> for further information. If <code>create_repo = FALSE</code> this argument is ignored.
gh_citation	A logical value. If TRUE (default) configures GitHub Actions to automatically update the CITATION.cff file. See <code>add_github_actions_citation()</code> for further information. If <code>create_repo = FALSE</code> this argument is ignored.
given	A character vector of length 1. The given name of the maintainer of the package. If NULL (default) the function will try to get this value by reading the <code>.Rprofile</code> file. For further information see <code>set_credentials()</code> and below the section <b>Managing credentials</b> .
family	A character vector of length 1. The family name of the maintainer of the package. If NULL (default) the function will try to get this value by reading the <code>.Rprofile</code> file. For further information see <code>set_credentials()</code> and below the section <b>Managing credentials</b> .
email	A character vector of length 1. The email address of the maintainer of the package. If NULL (default) the function will try to get this value by reading the <code>.Rprofile</code> file. For further information see <code>set_credentials()</code> and below the section <b>Managing credentials</b> .

orcid	A character vector of length 1. The ORCID of the maintainer of the package. If NULL (default) the function will try to get this value by reading the .Rprofile file. For further information see <a href="#">set_credentials()</a> and below the section <b>Managing credentials</b> .
organisation	A character vector of length 1. The GitHub organisation to host the repository. If defined it will overwrite the GitHub pseudo. Default is organisation = NULL (the GitHub pseudo will be used).
overwrite	A logical value. If TRUE files written from templates and modified by user are erased. Default is overwrite = FALSE. <b>Be careful while using this argument.</b>
quiet	A logical value. If TRUE messages are deleted. Default is FALSE.

**Value**

No return value.

**Recommended workflow**

The purpose of the package `rcompendium` is to make easier the creation of R package/research compendium so that user can focus on the code/analysis instead of wasting time organizing files.

The recommended workflow is:

1. Create an empty RStudio project;
2. Store your credentials with [set\\_credentials\(\)](#) (if not already done);
3. Run [new\\_package\(\)](#) to create a new package structure (and the GitHub repository);
4. Edit some metadata in DESCRIPTION, CITATION, and README.Rmd;
5. Implement, document & test functions (the fun part);
6. Update the project (update .Rd files, NAMESPACE, external dependencies in DESCRIPTION, re-knit README.Rmd, and check package integrity) with [refresh\(\)](#);
7. Repeat steps 5 and 6 while developing the package.

**Managing credentials**

You can use the arguments given, family, email, and orcid directly with the function [new\\_package\(\)](#) (and others). But if you create a lot a projects (packages and/or compendiums) it can be frustrating in the long run.

An alternative is to use **ONCE AND FOR ALL** the function [set\\_credentials\(\)](#) to permanently store this information in the .Rprofile file. If these arguments are set to NULL (default) each function of the package `rcompendium` will search in this .Rprofile file. It will save your time (it's the purpose of this package).

Even if you have stored your information in the .Rprofile file you will always be able to modify them on-the-fly (i.e. by using arguments of the [new\\_package\(\)](#)) or permanently by re-running [set\\_credentials\(\)](#).

## Configuring git

First run `gh::gh_whoami()` to see if your git is correctly configured. If so you should see something like:

```
{
  "name": "John Doe",
  "login": "jdoe",
  "html_url": "https://github.com/jdoe",
  ...
}
```

Otherwise you might need to run:

```
gert::git_config_global_set(name = "user.name",
                             value = "John Doe")

gert::git_config_global_set(name = "user.email",
                             value = "john.doe@domain.com")

gert::git_config_global_set(name = "github.user",
                             value = "jdoe")
```

See `gert::git_config_global_set()` for further information.

## Creating a GitHub repo

To create the GitHub repository directly from R, the package `rcompendium` uses the function `usethis::use_github()`, an client to the GitHub REST API. The interaction with this API required an authentication method: a **GITHUB PAT** (Personal Access Token).

If you don't have a **GITHUB PAT** locally stored, you must:

1. Obtain a new one from your GitHub account. **Make sure to select at least the first two scopes (private repository and workflow)**
2. Store it in the `~/.Renviro`n file by using `usethis::edit_r_enviro`n() and adding the following line: `GITHUB_PAT='ghp_99z9...z9'`

Run `usethis::gh_token_help()` for more information about getting and configuring a **GITHUB PAT**.

If everything is well configured you should see something like this after calling `gh::gh_whoami()`:

```
{
  "name": "John Doe",
  "login": "jdoe",
  "html_url": "https://github.com/jdoe",
  "scopes": "delete_repo, repo, workflow",
  "token": "ghp_99z9...z9"
}
```

And you will be able to create a GitHub repository directly from R!

## See Also

Other setup functions: [new\\_compendium\(\)](#), [refresh\(\)](#), [set\\_credentials\(\)](#)

## Examples

```
## Not run:
library(rcompendium)

## Define **ONCE FOR ALL** your credentials ----
set_credentials(given = "John", family = "Doe",
               email = "john.doe@domain.com",
               orcid = "9999-9999-9999-9999", protocol = "ssh")

## Create an R package ----
new_package()

## Start developing functions ----
## ...

## Update package (documentation, dependencies, README, check) ----
refresh()

## End(Not run)
```

---

refresh

*Refresh a package/research compendium*

---

## Description

**This function is about to be removed from rcompendium.**

This function refreshes a package/research compendium. It will:

- Update .Rd files and NAMESPACE by using [devtools::document\(\)](#);
- Update external packages (in DESCRIPTION file) by using [add\\_dependencies\(\)](#);
- Update badges in README.Rmd (if already present);
- Re-knitr the README.Rmd by using [rmarkdown::render\(\)](#);
- Check package integrity by using [devtools::check\(\)](#);
- Run analysis by sourcing make.R (only for compendium).

## Usage

```
refresh(compendium = NULL, make = FALSE, check = FALSE, quiet = FALSE)
```

**Arguments**

compendium	A character of length 1. The name of the folder to recursively detect dependencies to be added to the Imports field of DESCRIPTION file. It can be 'analysis/' (if additional folders, i.e. data/, outputs/, figures/, etc. have been created in this folder), '.' (if folders data/, outputs/, figures/, etc. have been created at the root of the project), etc. See <a href="#">new_compendium()</a> for further information. Default is compendium = NULL (i.e. no additional folder are inspected but R/, NAMESPACE, vignettes/, and tests/ are still inspected).
make	A logical value. If TRUE the Make-like R file make.R is sourced. Only for research compendium created with <a href="#">new_compendium()</a> . Default is FALSE.
check	A logical value. If TRUE package integrity is checked using <a href="#">devtools::check()</a> . Default is FALSE.
quiet	A logical value. If TRUE (default) message are deleted.

**Value**

No return value.

**See Also**

Other setup functions: [new\\_compendium\(\)](#), [new\\_package\(\)](#), [set\\_credentials\(\)](#)

**Examples**

```
## Not run:
library(rcompendium)

## Create an R package ----
new_package()

## Start developing functions ----
## ...

## Update package (documentation, dependencies, README) ----
refresh()

## End(Not run)
```

---

set_credentials	<i>Store credentials to the .Rprofile</i>
-----------------	---

---

**Description**

This function is used to store user credentials in the .Rprofile file. Accepted credentials are listed below. This function is useful if user creates a lot of packages and/or research compendiums.

If the .Rprofile file does not exist this function will create it. Users need to paste the content of the clipboard to this file.

**Usage**

```
set_credentials(  
  given = NULL,  
  family = NULL,  
  email = NULL,  
  orcid = NULL,  
  protocol = NULL  
)
```

**Arguments**

given	A character of length 1. The given name of the project maintainer.
family	A character of length 1. The family name of the project maintainer.
email	A character of length 1. The email address of the project maintainer.
orcid	A character of length 1. The ORCID of the project maintainer.
protocol	A character of length 1. The GIT protocol used to communicate with the GitHub remote. One of 'https' or 'ssh'. If you don't know, keep the default value (i.e. NULL) and the protocol will be 'https'.

**Value**

No return value.

**See Also**

Other setup functions: [new\\_compendium\(\)](#), [new\\_package\(\)](#), [refresh\(\)](#)

**Examples**

```
## Not run:  
library(rcompendium)  
  
## Define **ONCE FOR ALL** your credentials ----  
  
set_credentials("John", "Doe", "john.doe@domain.com",  
               orcid = "9999-9999-9999-9999", protocol = "https")  
  
## End(Not run)
```



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