

# Package: biocthis (via r-universe)

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**Title** Automate package and project setup for Bioconductor packages

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**Description** This package expands the usethis package with the goal of helping automate the process of creating R packages for Bioconductor or making them Bioconductor-friendly.

**License** Artistic-2.0

**Encoding** UTF-8

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**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.3.2

**URL** <https://github.com/lcolladotor/biocthis>

**BugReports** <https://github.com/lcolladotor/biocthis/issues>

**biocViews** Software, ReportWriting

**Imports** BiocManager, fs, glue, rlang, styler, usethis (>= 2.0.1)

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**VignetteBuilder** knitr

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---

bioc_badges	<i>Add Bioconductor README badges</i>
-------------	---------------------------------------

---

## Description

These functions add markdown text to the README to include all or individual badges from the Bioconductor landing page.

## Usage

```
use_bioc_badges()

use_bioc_build_badge(which = c("release", "devel"))

use_bioc_support_badge()

use_bioc_rank_badge()

use_bioc_history_badge()

use_bioc_last_commit_badge()

use_bioc_dependencies_badge()
```

## Arguments

which	Which branch to report the build status for. Possible values: "release" (default) or "devel".
-------	---

## Details

- `use_bioc_badges()`: adds all badges listed below, mimicking the [Bioconductor landing page](#)
- `use_bioc_build_badge()`: badge indicating [Bioconductor build status](#) for either the devel or release branch
- `use_bioc_support_badge()`: Bioc support site activity in the last 6 months (answered posts / total posts)
- `use_bioc_rank_badge()`: ranking by number of downloads
- `use_bioc_history_badge()`: how long since the package was first in a released Bioconductor version (or if it is in devel only)
- `use_bioc_last_commit_badge()`: time since last commit
- `use_bioc_dependencies_badge()`: number of recursive dependencies needed to install the package

## See Also

[usethis::use\\_badge\(\)](#)

## Examples

```
## Not run:
## Add all Bioc badges at once
use_bioc_badges()

## Add just the Bioc build status badge for devel
use_bioc_build_badge("devel")

## End(Not run)
```

---

bioc\_style

*Tidyverse style made Bioconductor-friendly*

---

## Description

This function uses `styler::tidyverse_style()` and modifies it to make it Bioconductor friendly. The full Bioconductor coding style is described at <https://bioconductor.org/developers/how-to/coding-style/> and it shares many properties with the Tidyverse coding style guide <https://style.tidyverse.org/>. This function defines the transformers code that you can then use with other `styler` functions such as `styler::style_pkg()`.

## Usage

```
bioc_style(indent_by = 4, ...)
```

**Arguments**

`indent_by` How many spaces of indention should be inserted after operators such as `'(`. Unlike `styler::tidyverse_style()`, the default is 4 to conform with the Bioconductor coding style.

`...` Other arguments passed to `styler::tidyverse_style()`.

**Details**

The `styler` package seems to be more actively maintained and better performance than `formatR`, though that package can also be useful. This function does not produce an exact Bioconductor coding style, but it gets you close enough! =)

For more details on how this function came to be, check <https://github.com/r-lib/styler/issues/636> <https://github.com/Bioconductor/BiocCheck/issues/57> <https://github.com/Bioconductor/bioconductor.org/issues/54>

**Value**

A `list()` object with the information required by functions in the `transformers` argument in the `styler` package functions such as `styler::style_pkg()`.

**Examples**

```
## Not run:
## Run these functions in your package
styler::style_pkg(transformers = biocthis::bioc_style())
styler::style_dir(usethis::proj_path("dev"), transformers = biocthis::bioc_style())

## End(Not run)

## Create an example package for illustrative purposes.
## Note: you do not need to run this for your own package!
pkgdir <- biocthis_example_pkg()

## Automatically style the example package
styler::style_pkg(pkgdir, transformers = biocthis::bioc_style())
```

---

`biocthis_example_pkg` *Create a temporary example package*

---

**Description**

This function creates a temporary example package. It is used by the functions in `biocthis` to illustrate the functionality of the package without exposing users to internals of `usethis` that users do not need to use under typical working conditions.

**Usage**

```
biocthis_example_pkg(name = "biocthisexample", use_git = FALSE)
```

## Arguments

name	A character(1) with the name of the example package.
use_git	A logical(1) indicating whether to set up git through <code>usethis::use_git()</code> on the temporary example package.

## Details

This function creates a package under `tempdir()` with the name provided and uses `usethis::proj_set()` for setting the project directory. Users do not need to rely on `usethis::proj_set()` under typical scenarios. In other words, if you are running R interactively, `usethis` will set the directory for you.

Check <https://github.com/lcolladotor/biocthis/commit/dc387807623f0e945432d15f0d0f899de1b1dd9d#r39102094> for more details that motivated this function.

## Value

A character(1) with the path to a temporary example package to use in the examples of the `biocthis` functions.

## Examples

```
## Create an example temporary package for illustrative purposes
pkgdir <- biocthis_example_pkg()
```

---

use_bioc_citation	<i>Create a biocthis-style CITATION template</i>
-------------------	--

---

## Description

This function is very similar to `usethis::use_citation()` except that it uses a template from `biocthis`. This template can help you get started with a citation file for your Bioconductor package. You can compare the template produced with the one from `usethis::use_citation()` to pick and choose the parts you like best from each.

## Usage

```
use_bioc_citation()
```

## Value

This function adds and/or replaces the `inst/CITATION` file in your R package.

## Examples

```
## Not run:
## Run this function in your package
use_bioc_citation()

## End(Not run)

## Create an example package for illustrative purposes.
## Note: you do not need to run this for your own package!
pkgdir <- biocthis_example_pkg()

## Create a template CITATION file that is Bioconductor-friendly
biocthis::use_bioc_citation()
```

---

use\_bioc\_coc

*Create a Bioconductor-styled code of conduct*

---

## Description

This function is very similar to `usethis::use_tidy_cov()` except that it uses a template from `biocthis`. This template links to the Bioconductor Code of Conduct available at <http://bioconductor.org/about/code-of-conduct/>. The function adds by default the file `.github/CODE_OF_CONDUCT.md` with a brief overview of the Bioconductor Code of Conduct and links to the latest version.

## Usage

```
use_bioc_coc(path = ".github")
```

## Arguments

`path` A character(1) specifying the location where the `CODE_OF_CONDUCT.md` will be saved at in relation to the root of your R package.

## Value

This function adds and/or replaces the `.github/CODE_OF_CONDUCT.md` file in your R package.

## Examples

```
## Not run:
## Run this function in your package
use_bioc_coc()

## End(Not run)

## Create an example package for illustrative purposes.
## Note: you do not need to run this for your own package!
pkgdir <- biocthis_example_pkg()
```

```
## Create a Bioconductor-styled CODE_OF_CONDUCT.md
biocthis::use_bioc_coc()
```

---

use\_bioc\_description *Create a biocthis-style DESCRIPTION template*

---

## Description

This function is very similar to `usethis::use_description()` except that it uses a template from `biocthis`. This template includes some of the information expected in the `DESCRIPTION` file of a Bioconductor package. You can compare the output of this function to the one from `usethis::use_description()` to select the parts you want from each.

## Usage

```
use_bioc_description(biocViews = "Software", report_bioc = FALSE)
```

## Arguments

<code>biocViews</code>	A <code>character()</code> with the Bioconductor <code>biocViews</code> terms you want to use for your package. See <a href="https://bioconductor.org/packages/release/BiocViews.html">https://bioconductor.org/packages/release/BiocViews.html</a> for details. Note that the terms you choose have to be part of one of the main four trees: <code>software</code> , <code>annotation</code> , <code>experiment</code> or <code>workflow</code> .
<code>report_bioc</code>	A <code>logical(1)</code> indicating whether to set the <code>BugReports</code> to the Bioconductor Support website <a href="https://support.bioconductor.org/">https://support.bioconductor.org/</a> or to the GitHub package issues page. As noted on December 18 2024 at <a href="https://github.com/Bioconductor/Contributions/issues/3503#issuecomment-2551233199">https://github.com/Bioconductor/Contributions/issues/3503#issuecomment-2551233199</a> , Bioconductor reviewers prefer to use the GitHub issues page for <code>BugReports</code> . This is also documented at <a href="https://contributions.bioconductor.org/description.html#description-bugreport">https://contributions.bioconductor.org/description.html#description-bugreport</a> .

## Details

For details about the `DESCRIPTION` file guidelines for Bioconductor packages check <http://bioconductor.org/developers/package-guidelines/#description>.

## Value

This function adds and/or replaces the `DESCRIPTION` file in your R package.

## Examples

```
## Not run:
## Run this function in your package
use_bioc_description()

## End(Not run)
```

```
## Create an example package for illustrative purposes.  
## Note: you do not need to run this for your own package!  
pkgdir <- biocthis_example_pkg(use_git = TRUE)  
  
## Create a template DESCRIPTION file that is Bioconductor-friendly  
biocthis::use_bioc_description()
```

---

use\_bioc\_feature\_request\_template

*Create a biocthis-style GitHub feature request template*

---

## Description

This function is very similar to `usethis::use_tidy_issue_template()` except that it uses a template from `biocthis` and is tailored for feature requests.

## Usage

```
use_bioc_feature_request_template()
```

## Details

For more details on how this function came to be, check <https://github.com/lcolladotor/biocthis/pull/33>.

## Value

This function adds and/or replaces the `.github/ISSUE_TEMPLATE/feature_request_template.md` file in your R package.

## Examples

```
## Not run:  
## Run this function in your package  
use_bioc_feature_request_template()  
  
## End(Not run)  
  
## Create an example package for illustrative purposes.  
## Note: you do not need to run this for your own package!  
pkgdir <- biocthis_example_pkg()  
  
## Create a feature request template GitHub file that is Bioconductor-friendly  
biocthis::use_bioc_feature_request_template()
```

---

`use_bioc_github_action`*Create a biocthis-style GitHub Actions workflow*

---

## Description

This function is very similar to `usethis::use_github_action()` except that it uses a template from `biocthis`. It creates a Bioconductor-friendly GitHub action workflow for your package. You can also use this GitHub Actions workflow by executing `usethis::use_github_action()`.

## Usage

```
use_bioc_github_action(  
  biocdocker = "release",  
  pkgdown = getOption("biocthis.pkgdown", FALSE),  
  testthat = getOption("biocthis.testthat", FALSE),  
  covr = testthat,  
  covr_coverage_type = getOption("biocthis.covr_coverage_type", "all"),  
  RUnit = getOption("biocthis.RUnit", FALSE),  
  pkgdown_covr_branch = getOption("biocthis.pkgdown_covr_branch", "devel"),  
  docker = getOption("biocthis.docker", FALSE)  
)
```

## Arguments

- |                                 |  |
|---------------------------------|--|
| <code>biocdocker</code>         | A character(1) specifying the Bioconductor docker version you want to use. Valid names are "release", "devel" or in the "RELEASE_X_Y" format such as "RELEASE_3_11". "release" is a special case where the latest bioc-release version will be automatically detected. Check <a href="http://bioconductor.org/help/docker/">http://bioconductor.org/help/docker/</a> for more information on the Bioconductor docker images. |
| <code>pkgdown</code>            | A logical(1) specifying whether to run pkgdown. Check <a href="https://cran.r-project.org/web/packages/pkgdown/index.html">https://cran.r-project.org/web/packages/pkgdown/index.html</a> for more information on pkgdown which is useful for creating documentation websites. If TRUE, then pkgdown will only run on the Linux (Bioconductor docker) test.  |
| <code>testthat</code>           | A logical(1) specifying whether to run testthat. Check <a href="https://cran.r-project.org/web/packages/testthat/index.html">https://cran.r-project.org/web/packages/testthat/index.html</a> for more information about testthat which is useful for unit tests. The testing chapter at <a href="https://r-pkgs.org/tests.html">https://r-pkgs.org/tests.html</a> is also very useful.                                       |
| <code>covr</code>               | A logical(1) specifying whether to run covr. Check <a href="https://cran.r-project.org/web/packages/covr/index.html">https://cran.r-project.org/web/packages/covr/index.html</a> for more information about covr, which is useful for displaying for assessing your test coverage. If TRUE, then covr will only run on the Linux (Bioconductor docker) test.   |
| <code>covr_coverage_type</code> | A character(1) specifying the code used to calculate the covr coverage. Options are package "tests", "vignettes", "examples", "all", or "none". The default is "all".  |

RUnit	A logical(1) specifying whether to run RUnit unit tests. Check <a href="http://bioconductor.org/developers/how-to/unitTesting-guidelines/">http://bioconductor.org/developers/how-to/unitTesting-guidelines/</a> for more information about RUnit.
pkgdown_covr_branch	A character(1) specifying the name of the GitHub branch that will be used creating the pkgdown website and running covr. Since biocthis version 1.9.3 this changed from "master" to "devel" by default to match <a href="https://twitter.com/Bioconductor/status/1631234299423850497">https://twitter.com/Bioconductor/status/1631234299423850497</a> .
docker	A logical(1) specifying whether to build a docker image with the resulting package. This will also create a Dockerfile. You can alternatively try using this excellent template: <a href="https://github.com/seandavi/BuildABiocWorkshop">https://github.com/seandavi/BuildABiocWorkshop</a> .

### Details

For the full history on how this GitHub Actions workflow came to be, check the "biocthis developer notes" vignette [https://lcolladotor.github.io/biocthis/articles/biocthis\\_dev\\_notes.html](https://lcolladotor.github.io/biocthis/articles/biocthis_dev_notes.html).

### Value

This function adds and/or replaces the `.github/workflows/check-bioc.yml` file in your R package.

### Examples

```
## Not run:
## Run this function in your package
biocthis::use_bioc_github_action()

## End(Not run)

## I have the following options on my ~/.Rprofile set
## Check
## <https://github.com/lcolladotor/biocthis/issues/9#issuecomment-702401032>
## for more information.
options("biocthis.pkgdown" = TRUE)
options("biocthis.testthat" = TRUE)
```

---

use\_bioc\_issue\_template

*Create a biocthis-style GitHub issue template*

---

### Description

This function is very similar to `usethis::use_tidy_issue_template()` except that it uses a template from biocthis.

**Usage**

```
use_bioc_issue_template()
```

**Details**

For more details on how this function came to be, check <https://github.com/r-lib/usethis/issues/1108>.

**Value**

This function adds and/or replaces the `.github/ISSUE_TEMPLATE/issue_template.md` file in your R package.

**Examples**

```
## Not run:
## Run this function in your package
use_bioc_issue_template()

## End(Not run)

## Create an example package for illustrative purposes.
## Note: you do not need to run this for your own package!
pkgdir <- biocthis_example_pkg()

## Create a template GitHub issue file that is Bioconductor-friendly
biocthis::use_bioc_issue_template()
```

---

use_bioc_news_md	<i>Create a biocthis-style NEWS.md file</i>
------------------	---

---

**Description**

This function is very similar to `usethis::use_news_md()` except that it uses a template from `biocthis`.

**Usage**

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

**Arguments**

open	Open the newly created file for editing? Happens in RStudio, if applicable, or via <code>utils::file.edit()</code> otherwise. This argument has the same behavior as the <code>open</code> argument used in <code>usethis</code> functions.
------	---

## Details

Unlike the original function, `use_bioc_news_md()` does not make git commits. So you won't lose work you didn't save when using this function.

## Value

This function adds and/or replaces the `NEWS.md` file in your R package.

## Examples

```
## Not run:
## Run this function in your package
use_bioc_news_md()

## End(Not run)

## Create an example package for illustrative purposes.
## Note: you do not need to run this for your own package!
pkgdir <- biocthis_example_pkg()

## Create a template NEWS.md file that is Bioconductor-friendly
biocthis::use_bioc_news_md()
```

---

`use_bioc_pkg_templates`

*Create a biocthis package template R scripts*

---

## Description

This function creates the `dev` directory and in it, it creates R script files that you can follow to create your own Bioconductor-friendly R package. These R scripts include all the commands you need to get started (=) The commands are designed to be run on the order given, though we also encourage you to check the latest utility functions in the `usethis` package. The `dev` directory will not be version controlled as requested by Bioconductor package reviewers at <https://github.com/Bioconductor/Contributions/issues/3503> and recommendations from <https://contributions.bioconductor.org/general.html?q=unnec#undesirable-files>.

## Usage

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

## Arguments

`open` Open the newly created file for editing? Happens in RStudio, if applicable, or via `utils::file.edit()` otherwise. This argument has the same behavior as the `open` argument used in `usethis` functions.

## Details

For more details on how this function came to be, check: <https://github.com/r-lib/actions/issues/84> <https://github.com/r-lib/styler/issues/636> <https://github.com/Bioconductor/BiocCheck/issues/57> <https://github.com/Bioconductor/bioconductor.org/issues/54> <https://github.com/r-lib/usethis/issues/1108> as well as the "biocthis developer notes" vignette [https://lcolladotor.github.io/biocthis/articles/biocthis\\_dev\\_notes.html](https://lcolladotor.github.io/biocthis/articles/biocthis_dev_notes.html).

## Value

This function adds and/or replaces the dev files in your R package. That is:

- dev/01\_create\_pkg.R
- dev/02\_git\_github\_setup.R
- dev/03\_core\_files.R
- dev/04\_update.R

## Examples

```
## Not run:  
## Run this function in your package  
use_bioc_pkg_templates()  
  
## End(Not run)  
  
## Create an example package for illustrative purposes.  
## Note: you do not need to run this for your own package!  
pkgdir <- biocthis_example_pkg()  
  
## Create the biocthis templates  
biocthis::use_bioc_pkg_templates()
```

---

use\_bioc\_pkgdown\_css *Create a css with Bioconductor colors for pkgdown*

---

## Description

This function creates the pkgdown/extra.css file with Bioconductor-style colors that will make your pkgdown documentation websites much cooler ^\_^.

## Usage

```
use_bioc_pkgdown_css()
```

## Details

For more details on how this function came to be, check <https://github.com/lcolladotor/biocthis/issues/34>.

## Value

This function adds and/or replaces the pkgdown/extra.css file in your R package.

## Examples

```
## Not run:
## Run this function in your package
use_bioc_support()

## End(Not run)

## Create an example package for illustrative purposes.
## Note: you do not need to run this for your own package!
pkgdir <- biocthis_example_pkg()

## Create a css file to style your pkgdown website in Bioconductor colors
biocthis::use_bioc_pkgdown_css()
```

---

use\_bioc\_readme\_rmd    *Create a biocthis-style README.Rmd file*

---

## Description

This function is very similar to `usethis::use_readme_rmd()` except that it uses a template from `biocthis`. This template `README.Rmd` includes information on how to install your Bioconductor package, how to cite it, and thanks the authors of several packages. It was built on top of the original template from `usethis::use_readme_rmd()`.

## Usage

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

## Arguments

open	Open the newly created file for editing? Happens in RStudio, if applicable, or via <code>utils::file.edit()</code> otherwise. This argument has the same behavior as the open argument used in <code>usethis</code> functions.
------	--

## Value

This function adds and/or replaces the `README.Rmd` file in your R package. It's useful to use `devtools::build_readme()` after running this function or whenever you update the `README.Rmd` file.

**Examples**

```
## Not run:
## Run this function in your package
use_bioc_readme_rmd()

## End(Not run)

## Create an example package for illustrative purposes.
## Note: you do not need to run this for your own package!
pkgdir <- biocthis_example_pkg(use_git = TRUE)

## Create a template README.Rmd file that is Bioconductor-friendly
biocthis::use_bioc_readme_rmd()
```

---

use\_bioc\_support      *Create a biocthis-style GitHub support file*

---

**Description**

This function is very similar to `usethis::use_tidy_support()` except that it uses a template from `biocthis`.

**Usage**

```
use_bioc_support()
```

**Details**

For more details on how this function came to be, check <https://github.com/r-lib/usethis/issues/1108>.

**Value**

This function adds and/or replaces the `.github/SUPPORT.md` file in your R package.

**Examples**

```
## Not run:
## Run this function in your package
use_bioc_support()

## End(Not run)

## Create an example package for illustrative purposes.
## Note: you do not need to run this for your own package!
pkgdir <- biocthis_example_pkg()

## Create a template GitHub support file that is Bioconductor-friendly
biocthis::use_bioc_support()
```

---

use\_bioc\_vignette      *Create a biothis-style vignette template*

---

## Description

This function is very similar to `usethis::use_vignette()` except that it uses a template from `biothis`. This template includes instructions for citing other packages using `RefManagerR`, uses `sessioninfo::session_info()` for displaying the R session information since it includes GitHub installation information and other useful details. The template also includes a section on how to ask for help and required knowledge.

## Usage

```
use_bioc_vignette(name, title = name)
```

## Arguments

<code>name</code>	Just like in <code>usethis::use_vignette()</code> : base for file name to use for new vignette. Should consist only of numbers, letters, <code>_</code> and <code>-</code> . Lower case is recommended.
<code>title</code>	Just like in <code>usethis::use_vignette()</code> : the title of the vignette.

## Value

This function adds and/or replaces the vignettes/`<name>`.Rmd file in your R package.

## Examples

```
## Not run:
## Run this function in your package
pkg <- basename(usethis::proj_get())
biothis::use_bioc_vignette(pkg, paste("Introduction to", pkg))

## End(Not run)

## Create an example package for illustrative purposes.
## Note: you do not need to run this for your own package!
pkgdir <- biothis_example_pkg()

## Create a template vignette file that is Bioconductor-friendly
biothis::use_bioc_vignette("biothisexample", "Introduction to biothisexample")
```

---

use_tinytest	<i>Use the tinytest framework for unit tests</i>
--------------	--

---

**Description**

This function works similarly to `usethis::use_test` that. It sets up the minimal files required to make `tinytest` compatible with the current project.

**Usage**

```
use_tinytest()  
  
use_tiny_test(name = NULL, open = interactive())
```

**Arguments**

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

**Value**

- `use_tinytest`: creates a `tinytest.R` file in the `tests` directory
- `use_tiny_test`: creates a `test_<name>.R` file in the `inst/tinytest` directory where are to reside

**Functions**

- `use_tiny_test()`: add a unit test file for testing functions in the current R file

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