

# Package ‘autoimport’

July 22, 2025

**Version** 0.1.1

**Title** Automatic Generation of @importFrom Tags

**Description** A toolbox to read all R files inside a package and  
automatically generate @importFrom 'roxygen2' tags in the right place.  
Includes a 'shiny' application to review the changes before applying them.

**License** GPL-3

**URL** <https://github.com/DanChaltiel/autoimport>,  
<https://danchaltiel.github.io/autoimport/>

**BugReports** <https://github.com/DanChaltiel/autoimport/issues>

**Depends** R (>= 3.6.0)

**Imports** cli, desc, diffviewer, digest, dplyr, fs, glue, purrr, readr,  
rlang, shiny, stringr, tibble, tidyr, utils

**Suggests** callr, covr, devtools, knitr, pkgload, rstudioapi, testthat  
(>= 3.0.0), tidyverse

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Config/testthat/edition** 3

**NeedsCompilation** no

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**Repository** CRAN

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|------------|-----------------------------------------------|
| autoimport | <i>Automatically compute @importFrom tags</i> |
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## Description

Automatically read all R files and compute appropriate @importFrom tags in the roxygen2 headers. The tags can be added to the source files using the [import\\_review\(\)](#) shiny app afterward.

## Usage

```
autoimport(
  root = ".",
  ...,
  location = c("function", "package"),
  files = get_R_dir(root),
  namespace_file = "NAMESPACE",
  description_file = "DESCRIPTION",
  use_cache = TRUE,
  ignore_package = TRUE,
  verbose = 2
)
```

## Arguments

|                  |                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------|
| root             | Path to the root of the package.                                                                |
| ...              | unused                                                                                          |
| location         | Whether to add @importFrom dispatched above each function, or centralized at the package level. |
| files            | Files to read. Default to the R/ folder.                                                        |
| namespace_file   | Path to the NAMESPACE file                                                                      |
| description_file | Path to the DESCRIPTION file                                                                    |
| use_cache        | Whether to use the cache system. Can only be "read" or "write".                                 |
| ignore_package   | Whether to ignore files ending with -package.R                                                  |
| verbose          | The higher, the more output printed. May slow the process a bit.                                |

## Value

Mostly used for side effects. Invisibly returns a dataframe summarizing the function imports, with input arguments as attributes.

## Limitations

Autoimport is based on [utils::getSrcRef\(\)](#) and share the same limits. Therefore, some function syntaxes are not recognized and autoimport will try to remove their @importFrom from individual functions:

- Operators (@importFrom dplyr %>%, @importFrom rlang :=, ...)
- Functions called by name (e.g. `sapply(x, my_fun)`)
- Functions used inside strings (e.g. `glue("my_fun={my_fun(x)}")`)

To keep them imported, you should either use a prefix (`pkg::my_fun`) or import them in your package-level documentation, as this file is ignored by default (with `ignore_package=TRUE`).

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| import_review | <i>Decision management</i> |
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## Description

Opens a Shiny app that shows a visual diff of each modified file.

## Usage

```
import_review(
  source_path = "R/",
  output_path = get_target_dir(),
  background = getOption("autoimport_background", FALSE)
)
```

## Arguments

|             |                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------|
| source_path | path to the original R files                                                                                        |
| output_path | path to the updated R files                                                                                         |
| background  | whether to run the app in a background process. Default to <code>getOption("autoimport_background", FALSE)</code> . |

## Value

nothing if `background==FALSE`, the ([callr::process](#)) object if `background==TRUE`

## Warning

Beware that using `background=TRUE` can bloat your system with multiple R session!  
You should probably kill the process when you are done:

```
p=import_review(background=TRUE)
p$kill()
```

## Source

inspired by [testthat::snapshot\\_review\(\)](#)

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|-------------------|-----------------------------------|
| update_importlist | <i>Update the IMPORTLIST file</i> |
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**Description**

Update the IMPORTLIST file, which forces the import of some packages without asking.

**Usage**

```
update_importlist(imports, path = NULL)
```

```
get_importlist(path = NULL)
```

**Arguments**

|         |                                                       |
|---------|-------------------------------------------------------|
| imports | a list of imports with key=function and value=package |
| path    | path to the IMPORTLIST file                           |

**Value**

nothing

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