

Package ‘autoimport’

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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.

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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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 autoimport

Automatically compute @importFrom tags

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`).

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

<code>source_path</code>	path to the original R files
<code>output_path</code>	path to the updated R files
<code>background</code>	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()`

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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