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

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NeedsCompilation no

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Contents

autoimport 2
import_review 3
update_importlist 4

Index **5**

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` *Decision management*

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 `getOption("autoimport_background", FALSE)`.

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 *Update the* IMPORTLIST *file*

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

Index

autoimport, 2

callr::process, *3*

get_importlist *(*update_importlist*)*, 4

import_review, 3
import_review(), *2*

testthat::snapshot_review(), *3*

update_importlist, 4
utils::getSrcref(), *3*