

# Package ‘annotater’

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**Title** Annotate Package Load Calls

**Version** 0.2.4

**Description** Provides non-invasive annotation of package load calls such as `library()`, `p_load()`, and `require()` so that we can have an idea of what the packages we are loading are meant for.

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Imports** dplyr, knitr, purrr, readr, rlang, rstudioapi, stringi, stringr, tibble, tidyr

**URL** <https://github.com/luisDVA/annotater>, <https://annotater.liomys.mx>

**BugReports** <https://github.com/luisDVA/annotater/issues>

**Suggests** covr, rmarkdown, testthat

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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align_annotations	<i>Vertical alignment of package annotations</i>
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## Description

Internal helper function, based on ‘unheadr::regex\_valign‘

## Usage

```
align_annotations(
  annot_string,
  regex_ai = paste0("(?!\\s)(?!\\s)(?=\\sCRAN\\s|",
    "\\sBiocon|\\snot\\sinstall|", "\\s\\s\\s\\s[|\\sPosit R)"),
  sep_str = ""
)
```

## Arguments

annot_string	Character vector with annotated package calls.
regex_ai	Custom regular expression to match lines with package annotations.
sep_str	Whitespace separator.

## Value

A character vector with vertically aligned package calls.

---

annotate\_active\_file *Annotate active file*

---

**Description**

Annotates package load calls in the active .R file

**Usage**

```
annotate_active_file()
```

**Value**

No return value, wraps [annotate\_pkg\_calls()] for access via Addin

---

annotate\_data\_active\_file  
*Annotate loaded data in active file*

---

**Description**

Annotates package load calls with loaded datasets in the active .R file

**Usage**

```
annotate_data_active_file()
```

**Value**

No return value, wraps [annotate\_pkg\_datasets()] for access via Addin

---

annotate\_fun\_calls *Annotate function calls*

---

**Description**

Annotate function calls

**Usage**

```
annotate_fun_calls(string_og)
```

**Arguments**

string\_og      text string (script) with package load calls

**Value**

text string with function call annotations. Will make note of packages not currently installed. Lines with existing comments or annotations are ignored by the regular expression that matches package names. Be aware that package-specific methods (e.g., print or summary methods) will be annotated too.

**Examples**

```
test_string <- c("library(boot)\nrequire(lattice)\ncanonical.theme()")
cat(annotate_fun_calls(test_string))
```

---

```
annotate_fun_calls_active_file
```

*Annotate function calls in active file*

---

**Description**

Annotates package load calls with the used functions of each package in the active .R file

**Usage**

```
annotate_fun_calls_active_file()
```

**Value**

No return value, wraps [annotate\_fun\_calls()] for access via Addin

---

```
annotate_pkg_calls
```

*Annotate package calls*

---

**Description**

Annotate package calls

**Usage**

```
annotate_pkg_calls(string_og, pkg_field = "Title")
```

**Arguments**

string_og	Text string (script) with package load calls.
pkg_field	Field from package description to retrieve, defaults to "Title"

**Value**

Text string with package Title annotations. Will make note of packages not currently installed.

**Examples**

```
test_string <- c("library(boot)\nrequire(tools)")
annotate_pkg_calls(test_string)
```

---

annotate\_pkg\_datasets *Annotate package datasets*

---

**Description**

Annotate package datasets

**Usage**

```
annotate_pkg_datasets(string Og)
```

**Arguments**

string Og      text string (script) with package load calls

**Details**

No support for **pacman** package loading at this time.

**Value**

text string with annotations for datasets loaded from packages explicitly, lazily, or through name-spacing. Will make note of packages not currently installed. Lines with existing comments or annotations are ignored.

**Examples**

```
test_string <- c("library(tidyr)\nlibrary(purrr)\ndata(construction)\nsummary(fish_encounters)")
annotate_pkg_datasets(test_string)
```

---

annotate\_repostitle    *Annotate package titles and repository sources*

---

**Description**

Annotate package titles and repository sources

**Usage**

```
annotate_repostitle(string_og)
```

**Arguments**

string\_og        Text string (script) with package load calls.

**Details**

Some annotations may be long, check for possible line breaks introduced into your script.

**Value**

Text string with package titles and package repository source annotations. Will make note of packages not currently installed. Lines with existing comments or annotations are ignored by the regular expression that matches package names. Also ignores base packages.

**Examples**

```
test_string <- c("library(knitr)\nrequire(datasets)")
annotate_repostitle(test_string)
```

---

annotate\_repostitle\_active  
                          *Annotate titles and repositories in active file*

---

**Description**

Annotates package load calls with package titles and repository details in the active .R file

**Usage**

```
annotate_repostitle_active()
```

**Value**

No return value, wraps [annotate\_repostitle()] for access via Addin

---

annotate\_repos\_active\_file  
*Annotate repositories in active file*

---

**Description**

Annotates package load calls with repository details in the active .R file

**Usage**

```
annotate_repos_active_file()
```

**Value**

No return value, wraps [annotate\_repo\_source()] for access via Addin

---

annotate\_repo\_source *Annotate repository sources*

---

**Description**

Annotate repository sources

**Usage**

```
annotate_repo_source(string_og)
```

**Arguments**

string\_og      text string (script) with package load calls

**Value**

text string with package repository source annotations. Will make note of packages not currently installed. Lines with existing comments or annotations are ignored by the regular expression that matches package names. Also ignores base packages. Local installs now annotated as such.

**Examples**

```
test_string <- c("library(knitr)\nrequire(datasets)")
annotate_repo_source(test_string)
```

annotate\_r\_version     *Annotate R Version*

---

**Description**

Annotate R Version

**Usage**

```
annotate_r_version()
```

---

annotate\_script        *Annotate script*

---

**Description**

Annotate script

**Usage**

```
annotate_script(script_file, pkg_field = "Title")
```

**Arguments**

script\_file     Path to an R script.  
pkg\_field        Field from package description to retrieve, defaults to "Title".

**Value**

Prints the annotated script to the console.

---

check\_pkgs             *Check if packages are installed*

---

**Description**

Check if packages are installed

**Usage**

```
check_pkgs(pkgvec)
```

**Arguments**

pkgvec            Vector of package names

**Value**

A data frame with installation status for packages in the input text.

---

expand\_metapackages    *Expand metapackages*

---

**Description**

Expand metapackages

**Usage**

```
expand_metapackages(string_og)
```

**Arguments**

string\_og        text string (script) with package load calls

**Value**

Text string with metapackage load calls replaced by multiple separate calls to the core packages that make up the metapackage. Core packages will be fenced in four commenting symbols and the order follows the attachment order from each metapackage. Will make note of metapackages not currently installed.

**Examples**

```
test_string <- c("library(tidyverse)")
expand_metapackages(test_string)
```

---

expand\_metapackages\_active\_file  
                                   *Expand metapackages in active file*

---

**Description**

Replaces metapackage load calls in the active .R file with multiple separate calls to its core packages.

**Usage**

```
expand_metapackages_active_file()
```

**Value**

No return value, wraps [expand\_metapackages()] for access via Addin

---

get_pkg_datasets	<i>Query data from packages</i>
------------------	---------------------------------

---

**Description**

Query data from packages

**Usage**

```
get_pkg_datasets(inst_pkgs)
```

**Arguments**

inst\_pkgs      Vector of package names

**Value**

A data frame with all the bundled data from the specified packages.

---

match_pkg_names	<i>Match package names</i>
-----------------	----------------------------

---

**Description**

Match package names

**Usage**

```
match_pkg_names(string_og)
```

**Arguments**

string\_og      Text string (script) with package load calls.

**Value**

A tibble with the package load calls and package names.

**Examples**

```
test_string <- c("library(boot)\nrequire(Matrix)")
match_pkg_names(test_string)
```

---

pkg_version	<i>Retrieve Package version</i>
-------------	---------------------------------

---

**Description**

Internal helper function.

**Usage**

```
pkg_version(pkgs_col)
```

**Arguments**

pkgs\_col      Package name.

**Value**

A character vector with the package version.

---

repo_details	<i>Retrieve repo details</i>
--------------	------------------------------

---

**Description**

Internal helper function.

**Usage**

```
repo_details(pkgs_col)
```

**Arguments**

pkgs\_col      Name of variable with the non-CRAN repos.

**Value**

A character vector of user names and repository names.

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