Package: annotater (via r-universe)

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Title Annotate Package Load Calls

Version 0.2.4

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

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Encoding UTF-8

LazyData true

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

Config/pak/sysreqs libicu-dev libx11-dev

Repository https://luisdva.r-universe.dev

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`align_annotations` *Vertical alignment of package annotations*

Description

Internal helper function, based on ‘unheadr::regex_valign“

Usage

```
align_annotations(
  annot_string,
  regex_ai = paste0("(?!\\))(?!\\s)(?=\\#\\sCRAN\\sv|",
    "\\#\\sBiocon|\\#\\snot\\sinstall|", "\\#\\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 namespacing. 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_r_version *Annotate R Version*

Description

Annotate R Version

Usage

```
annotate_r_version()
```

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_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_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_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 *Query data from packages*

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 *Match package names*

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 *Retrieve Package version*

Description

Internal helper function.

Usage

```
pkg_version(pkgs_col)
```

Arguments

pkgs_col	Package name.

Value

A character vector with the package version.

repo_details *Retrieve repo details*

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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