Package: ghactions4r (via r-universe)

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Title Use GitHub Actions Reusable Workflows for R Packages

Version 0.2.0

Description Provides functions to allow users to set up github action workflows related to R packages.

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Imports usethis

Suggests dplyr, knitr, rmarkdown, rvest, testthat (>= 3.0.0), visNetwork

VignetteBuilder knitr

Config/testthat/edition 3

Encoding UTF-8

LazyData true

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.2

Repository https://noaa-fisheries-integrated-toolbox.r-universe.dev

RemoteUrl https://github.com/nmfs-fish-tools/ghactions4r

RemoteRef HEAD

RemoteSha 00f262257f9cf24e98f8b8e1c666214a7f1007a4

Contents

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check_workflow_name   *Check the workflow name is formatted correctly*

Description

Basically check that it is a filename that ends in .yml

Usage

```
check_workflow_name(workflow_name)
```

Arguments

workflow_name   What to name the github action workflow locally. Must have the file extension
                   `.yml`

---

rm_dollar_sign   *Replace dollar sign operator in a file*

Description

The dollar sign is convenient to write, but allows for partial matching, which we don't often want.
This function takes a file and changes all dollar signs to double brackets with names in quotations
instead. Note that this function will incorrectly convert text enclosed in backticks that includes a
dollar sign. Note also that if a dollar sign is within a text string enclosed with quotation marks,
it will also not convert correctly and so will exit on error. (for example, "See test$name" would
become "See test[["name"]]", which is not parsable R code due to 2 sets of quotation marks.)

Usage

```
rm_dollar_sign(file, out_file = file, allow_recursive = TRUE, max_loops = 5)
```

Arguments

file   Filename either with full path or relative to working directory.

out_file   The name or path of a new file to write to. This is by default the same as the
                   original file. Set to NULL to avoid writing a new file.

allow_recursive

                   Should dollar sign references of list in list be replaced? If this is FALSE, then
                   only the first reference will be replaced. For example, F$first$second would
                   become F[["first"]]$second when allow_recursive is FALSE, but would be-
                   come F[["first"]][["second"]] if TRUE.

max_loops   How many times should dollar signs be looked for recursively, if allow_recursive
                   is TRUE? Defaults to 5. This is meant to prevent an infinite loop in case the
                   function does not work properly.

Value

A character vector of the modified text. As a side effect, produces a text file (name specified in out_file) written out from R using writeLines().

Author(s)

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Examples

```
test_text <- c(
  "x$my_name <- y$test",
  "x[['my_name']]",
  "no_replace_here <- 44",
  "x$names<-new_assign;x$`22`",
  "x$names <- new_assign; x$`22`",
  "x$`$$weirdcharacters`<-222",
  "x$`nameinbacktick`",
  "x$mylist$my_col$YetAnotherCol",
  "x$mylist$my_col$`1_somename`"
)
writeLines(test_text, "test_rm_dollar_sign.txt")
new_text <- rm_dollar_sign(
  file = "test_rm_dollar_sign.txt",
  out_file = NULL
)
new_text
file.remove("test_rm_dollar_sign.txt")
```

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use_build_pkgdown   *use workflow in current pkg to check pkgdown site builds.*

Description

use workflow in current pkg to check pkgdown site builds.

Usage

```
use_build_pkgdown(workflow_name = "call-build-pkgdown.yml")
```

Arguments

workflow_name   What to name the github action workflow locally. Must have the file extension
                 .yml

---

use_calc_coverage   *workflow for calculating code coverage*

Description

workflow for calculating code coverage

Usage

```
use_calc_coverage(
  workflow_name = "call-calc-coverage.yml",
  use_public_rspm = TRUE
)
```

Arguments

workflow_name   What to name the github action workflow locally. Must have the file extension
                .yml

use_public_rspm

                  Use posit package manager instead of CRAN to install dependencies? The advantage here is that dependencies are precompiled, so install should be much quicker. In rare situations (like packages with TMB dependencies), using use_public_rspm = FALSE may be a better option. Note a setting only needs to be specified in the yml if use_public_rspm is FALSE, so there will be no setting added if use_public_rspm is TRUE.

---

use_doc_and_style_r   *Use workflow in current pkg to automate documenting and styling*

Description

Style your R package components automatically by running devtools::document(), styler::style_pkg(), and usethis::use_tidy_description().

Usage

```
use_doc_and_style_r(
  workflow_name = "call-doc-and-style-r.yml",
  use_rm_dollar_sign = FALSE,
  how_to_commit = c("pull_request", "directly"),
  build_trigger = c("push_to_main", "pull_request", "manually", "weekly"),
  use_pat = FALSE,
  pat_name = "PAT"
)
```

Arguments

`workflow_name`	What to name the github action workflow locally. Must have the file extension `.yml`
`use_rm_dollar_sign`	
	in addition to devtools::document and styler::style_pkg, should ghactions4r::rm_dollar_sign be run? Defaults to FALSE.
`how_to_commit`	Where should changes made to style and documentation be committed? Options are 1) in a pull request to the branch ("pull_request") where the workflow started; or 2) directly to the branch ("directly") where the workflow started.
`build_trigger`	Select the build trigger. Options are to run on pushing commits to main ("push_to_main", the default); run when a pull request is opened, reopened, or updated ("pull_request"); run manually with the workflow_dispatch trigger ("manually"); run on the default branch (usually main) once a week ("weekly").
`use_pat`	Should a personal access token (PAT) stored as a github secret be used? This is only necessary if you want the pull request generated by the doc and style workflow to be able to start other github action runs.
`pat_name`	Name of the personal access token (PAT), as stored in secrets. Only used if `use_pat = TRUE`. After generating the personal access token, See how to add it as a secret.

Details

Note that allow the pull request created from this workflow can be used to trigger github action runs, by using a personal access token to provide the right permissions. The PAT is first generated on a user account, then added to the repository or organization as a secret. Using a PAT can cause recursive runs, so should be used with caution. See github documentation on triggering a workflow from a workflow for more information.

Examples

```
# set up running the doc and style workflow on each push to main, opening a
# pull request to main when changes are found.
## Not run:
use_doc_and_style_r()

## End(Not run)
# the same as
## Not run:
use_doc_and_style_r(
  how_to_commit = "pull_request",
  build_trigger = "push_to_main"
)

## End(Not run)
# Set up running doc and style on each pull request, commiting directly to
# the pull request branch
## Not run:
use_doc_and_style_r(
  how_to_commit = "directly",
```

```
  build_trigger = "pull_request"
)

## End(Not run)
# Set up the workflow to use a personal access token (PAT)
## Not run:
use_doc_and_style_r(use_pat = TRUE, pat_name = "PAT")

## End(Not run)
```

---

use_r_cmd_check   *Use workflow to run r cmd check on Linux, Mac, and Windows GitHub*
                             Actions

Description

Use workflow to run r cmd check on Linux, Mac, and Windows GitHub Actions

Usage

```
use_r_cmd_check(
  workflow_name = "call-r-cmd-check.yml",
  use_full_build_matrix = FALSE,
  depends_on_tmb = FALSE
)
```

Arguments

workflow_name   What to name the github action workflow locally. Must have the file extension
                 .yml

use_full_build_matrix

                 Run R cmd check with two older versions of R in addition to the three runs that
                 use the release version.

depends_on_tmb   An option that install Matrix from source for windows and Mac builds to solved
                 a nuanced issue for packages dependent on TMB. See this google groups thread
                 for more information.

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use_spell_check   *use workflow to run spelling::spell_check_package()*

Description

use workflow to run spelling::spell_check_package()

Usage

```
use_spell_check(workflow_name = "call-spell-check.yml")
```

Arguments

workflow_name   What to name the github action workflow locally. Must have the file extension
.yml

Value

The path to the new github action file.

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use_update_pkgdown   *use workflow in current pkg to update pkg down, where the site is deployed to a branch called gh-pages*

Description

use workflow in current pkg to update pkg down, where the site is deployed to a branch called gh-pages

Usage

```
use_update_pkgdown(workflow_name = "call-update-pkgdown.yml")
```

Arguments

workflow_name   What to name the github action workflow locally. Must have the file extension
.yml

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