

# Package ‘ghclass’

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**Title** Tools for Managing Classes on GitHub

**Version** 0.3.1

**Description** Interface for the GitHub API that enables efficient management of courses on GitHub. It has a functionality for managing organizations, teams, repositories, and users on GitHub and helps automate most of the tedious and repetitive tasks around creating and distributing assignments.

**License** GPL-3

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**Author** Colin Rundel [aut, cre],  
Mine Cetinkaya-Rundel [aut],  
Therese Anders [ctb]

**Maintainer** Colin Rundel <rundel@gmail.com>

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## Contents

action	2
action_badge	4
branch	5

github_api_limit . . . . .	6
github_orgs . . . . .	7
github_rate_limit . . . . .	8
github_whoami . . . . .	9
github_with_pat . . . . .	10
issue . . . . .	11
local_repo . . . . .	13
local_repo_rename . . . . .	15
org_create_assignment . . . . .	15
org_details . . . . .	16
org_members . . . . .	18
org_perm . . . . .	20
pages . . . . .	21
pr . . . . .	22
repo_core . . . . .	23
repo_details . . . . .	26
repo_file . . . . .	28
repo_notification . . . . .	31
repo_style . . . . .	32
repo_user . . . . .	33
team . . . . .	35
team_members . . . . .	36
user . . . . .	37

## Index 39

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action	<i>Retrieve information about GitHub Actions workflows and their runs.</i>
--------	--

---

### Description

- `action_workflows()` - retrieve details on repo workflows.
- `action_runs()` - retrieve details on repo workflow runs.
- `action_status()` - DEPRECATED - retrieve details on most recent workflow runs.
- `action_runtime()` - retrieves runtime durations for workflow runs.
- `action_artifacts()` - retrieve details on available workflow artifacts.
- `action_artifact_download()` - downloads artifact(s) into a local directory.
- `action_artifact_delete()` - deletes artifact(s).

### Usage

```
action_artifacts(repo, keep_expired = FALSE, which = c("latest", "all"))
```

```
action_artifact_delete(repo, ids)
```

```
action_artifact_download(
```

```

    repo,
    dir,
    ids = action_artifacts(repo),
    keep_zip = FALSE,
    file_pat = "",
    overwrite = FALSE
)

action_runs(
  repo,
  branch = NULL,
  event = NULL,
  status = NULL,
  created = NULL,
  limit = 1
)

action_status(
  repo,
  branch = NULL,
  event = NULL,
  status = NULL,
  created = NULL,
  limit = 1
)

action_runtime(
  repo,
  branch = NULL,
  event = NULL,
  status = NULL,
  created = NULL,
  limit = 1
)

action_workflows(repo, full = FALSE)

```

### Arguments

repo	Character. Address of repository in owner/name format.
keep_expired	Logical. Should expired artifacts be returned.
which	Character. Either "latest" to return only the most recent of each artifact or "all" to return all artifacts.
ids	Integer or data frame. Artifact ids to be downloaded or deleted. If a data frame is passed then the id column will be used.
dir	Character. Path to the directory where artifacts will be saved.
keep_zip	Logical. Should the artifact zips be saved (TRUE) or their contents (FALSE).

file_pat	Character. If extracting zip with multiple files, regexp pattern to match filename.
overwrite	Logical. Should existing files be overwritten.
branch	Character. Filter runs associated with a particular branch.
event	Character. Filter runs for triggered by a specific event. See <a href="#">here</a> for possible event names.
status	Character. Filter runs for a particular status or conclusion (e.g. completed or success).
created	Character. Filter runs for a given creation date. See <a href="#">here</a> for date query syntax.
limit	Numeric. Maximum number of workflow runs to return. Default 1. Note results are chronologically ordered, so limit = 1 will return the most recent action run for a repository.
full	Logical. Should all workflow columns be returned. Default FALSE.

### Value

action\_workflows(), action\_runs(), action\_runtime(), and action\_artifacts all return tibbles containing information on requested repos' available workflows, recent workflow runs, workflow runs runtimes, and generated artifacts respectively.

action\_artifact\_download() returns a character vector containing the paths of all downloaded files

action\_artifact\_delete() returns an invisible data frame containing repository names and ids of the deleted artifacts.

### Examples

```
## Not run:
action_workflows("rundel/ghclass")

action_runs("rundel/ghclass")

action_runtime(c("rundel/ghclass", "rundel/parsermd"))

action_artifacts(c("rundel/ghclass", "rundel/parsermd"))

## End(Not run)
```

---

action\_badge

*Add or remove GitHub Actions badges from a repository*

---

### Description

- action\_add\_badge() - Add a GitHub Actions badge to a file.
- action\_remove\_badge() - Remove one or more GitHub Action badges from a file.

**Usage**

```

action_add_badge(
  repo,
  workflow = NULL,
  where = "^.",
  line_padding = "\n\n\n",
  file = "README.md"
)

action_remove_badge(repo, workflow_pat = ".*?", file = "README.md")

```

**Arguments**

repo	Character. Address of repository in owner/name format.
workflow	Character. Name of the workflow.
where	Character. Regex pattern indicating where to insert the badge, defaults to the beginning of the target file.
line_padding	Character. What text should be added after the badge.
file	Character. Target file to be modified, defaults to README.md.#'
workflow_pat	Character. Name of the workflow to be removed, or a regex pattern that matches the workflow name.

**Value**

Both `action_add_badge()` and `action_remove_badge()` invisibly return a list containing the results of the relevant GitHub API call.

---

branch	<i>Create and delete branches in a repository</i>
--------	---

---

**Description**

- `branch_create()` - creates a new branch from an existing GitHub repo.
- `branch_delete()` - deletes a branch from an existing GitHub repo.
- `branch_remove()` - previous name of `branch_delete`, deprecated.

**Usage**

```

branch_create(repo, branch, new_branch)

branch_delete(repo, branch)

branch_remove(repo, branch)

```

**Arguments**

repo	GitHub repository address in owner/repo format.
branch	Repository branch to use.
new_branch	Name of branch to create.

**Value**

branch\_create() and branch\_remove() invisibly return a list containing the results of the relevant GitHub API call.

**See Also**

[repo\\_branches](#)

**Examples**

```
## Not run:
repo_create("ghclass-test", "test_branch", auto_init=TRUE)

branch_create("ghclass-test/test_branch", branch = "main", new_branch = "test")
repo_branches("ghclass-test/test_branch")

branch_delete("ghclass-test/test_branch", branch="test")
repo_branches("ghclass-test/test_branch")

repo_delete("ghclass-test/test_branch", prompt = FALSE)

## End(Not run)
```

---

github\_api\_limit      *Tools for limiting gh's GitHub api requests.*

---

**Description**

- github\_get\_api\_limit() - returns the current limit on results returned by gh.
- github\_set\_api\_limit() - sets a limit on results returned by gh.

**Usage**

```
github_get_api_limit()

github_set_api_limit(limit = 10000L)
```

**Arguments**

limit	The maximum number of records to return from an API request.
-------	--

**Details**

This value is stored in the "ghclass.api.limit" option globally.

**Value**

github\_get\_api\_limit() returns a single integer value.

github\_set\_api\_limit() invisibly returns the value of the limit argument.

**Examples**

```
github_get_api_limit()
```

```
github_set_api_limit(500)
```

```
github_get_api_limit()
```

---

github_orgs	<i>Collect details on the authenticated user's GitHub organization memberships (based on the current PAT).</i>
-------------	--

---

**Description**

Collect details on the authenticated user's GitHub organization memberships (based on the current PAT).

**Usage**

```
github_orgs(quiet = FALSE)
```

**Arguments**

quiet            Logical. Should status messages be shown.

**Value**

Returns a tibble with organization details.

**Examples**

```
## Not run:  
github_orgs()  
  
## End(Not run)
```

---

github\_rate\_limit      *Tools for handling GitHub personal access tokens (PAT)*

---

## Description

- `github_get_token` - returns the user's GitHub personal access token (PAT).
- `github_set_token` - defines the user's GitHub PAT by setting the `GITHUB_PAT` environmental variable. This value will persist until the session ends or `github_reset_token()` is called.
- `github_reset_token` - removes the value stored in the `GITHUB_PAT` environmental variable.
- `github_test_token` - checks if a PAT is valid by attempting to authenticate with the GitHub API.
- `github_token_scopes` - returns a vector of scopes granted to the token.

## Usage

```
github_rate_limit()

github_graphql_rate_limit()

github_get_token()

github_set_token(token)

github_reset_token()

github_test_token(token = github_get_token())

github_token_scopes(token = github_get_token())
```

## Arguments

`token`                  Character. Either the literal token, or the path to a file containing the token.

## Details

This package looks for the personal access token (PAT) in the following places (in order):

- Value of `GITHUB_PAT` environmental variable.
- Any GitHub PAT token(s) stored with `gitcreds` via `gitcreds_set()`.

For additional details on creating a GitHub PAT see the `usethis` vignette on [Managing Git\(Hub\) Credentials](#). For those who do not wish to read the entire article, the quick start method is to use:

- `usethis::create_github_token()` - to create the token and then,
- `gitcreds::gitcreds_set()` - to securely cache the token.



**Value**

github\_get\_token() returns the current PAT as a character string with the gh\_pat class. See [gh::gh\\_token\(\)](#) for additional details.

github\_set\_token() and github\_reset\_token() return the result of Sys.setenv() and Sys.unsetenv() respectively.

github\_test\_token() invisibly returns a logical value, TRUE if the test passes, FALSE if not.

github\_token\_scopes() returns a character vector of granted scopes.

**Examples**

```
## Not run:
github_test_token()

github_token_scopes()

(pat = github_get_token())

github_set_token("ghp_BadTokenBadTokenBadTokenBadTokenBadToken")
github_get_token()
github_test_token()

github_set_token(pat)

## End(Not run)
```

---

github_whoami	<i>Returns the login of the authenticated user (based on the current PAT).</i>
---------------	--

---

**Description**

Returns the login of the authenticated user (based on the current PAT).

**Usage**

```
github_whoami(quiet = FALSE)
```

**Arguments**

quiet            Logical. Should status messages be shown.

**Value**

Character value containing user login.

## Examples

```
## Not run:  
github_whoami()  
  
## End(Not run)
```

---

github\_with\_pat      *withr-like functions for temporary personal access token*

---

## Description

Temporarily change the GITHUB\_PAT environmental variable for GitHub authentication. Based on the withr interface.

## Usage

```
with_pat(new, code)  
  
local_pat(new, .local_envir = parent.frame())
```

## Arguments

new	Temporary GitHub access token
code	Code to execute with the temporary token
.local_envir	The environment to use for scoping.

## Details

if new = NA is used the GITHUB\_PAT environment variable will be unset.

## Value

The results of the evaluation of the code argument.

## Examples

```
## Not run:  
with_pat("1234", print(github_get_token()))  
  
## End(Not run)
```

---

issue

*GitHub Issue related tools*

---

### Description

- `issue_create` creates a new issue.
- `issue_close` closes an existing issue.
- `issue_edit` edits the properties of an existing issue.

### Usage

```
issue_close(repo, number)
```

```
issue_create(  
  repo,  
  title,  
  body,  
  labels = character(),  
  assignees = character(),  
  delay = 0  
)
```

```
issue_edit(  
  repo,  
  number,  
  title = NULL,  
  body = NULL,  
  state = NULL,  
  milestone = NULL,  
  labels = list(),  
  assignees = list()  
)
```

### Arguments

<code>repo</code>	Character. Address of one or more repositories in owner/name format.
<code>number</code>	Integer. GitHub issue number.
<code>title</code>	Character. Title of the issue.
<code>body</code>	Character. Content of the issue.
<code>labels</code>	Character. Vector of the labels to associate with this issue
<code>assignees</code>	Character. Vector of logins for users assigned to the issue.
<code>delay</code>	Numeric. Delay between each API request. Issue creation has a secondary rate limit (~ 20/min).
<code>state</code>	Character. State of the issue. Either "open" or "closed".

**milestone** Character. The number of the milestone to associate this issue with. Only users with push access can set the milestone for issues. The milestone is silently dropped otherwise.

### Value

All functions invisibly return a list containing the results of the relevant GitHub API call.

### See Also

[repo\\_issues](#)

### Examples

```
## Not run:
repo_create("ghclass-test","test_issue")

issue_create(
  "ghclass-test/test_issue",
  title = "Issue 1",
  body = "This is an issue"
)

issue_create(
  "ghclass-test/test_issue",
  title = "Issue 2", body = "This is also issue",
  label = "Important"
)

issue_create(
  "ghclass-test/test_issue",
  title = "Issue 3", body = "This is also issue",
  label = c("Important", "Super Important"),
  assignees = "rundel"
)

issue_close("ghclass-test/test_issue", 1)

issue_edit(
  "ghclass-test/test_issue", 2,
  title = "New issue 2 title!",
  body = "Replacement body text"
)

ghclass::repo_issues("ghclass-test/test_issue")

repo_delete("ghclass-test/test_issue", prompt=FALSE)

## End(Not run)
```

**Description**

- `local_repo_clone()` - Clones a GitHub repository to a local directory.
- `local_repo_add()` - Equivalent to `git add` - stages a file in a local repository.
- `local_repo_commit()` - Equivalent to `git commit` - commits staged files in a local repository.
- `local_repo_push()` - Equivalent to `git push` - push a local repository.
- `local_repo_pull()` - Equivalent to `git pull` - pull a local repository.
- `local_repo_branch()` - Equivalent to `git branch` - create a branch in a local repository.
- `local_repo_log()` - Equivalent to `git log` - returns a data frame for git log entries.

**Usage**

```
local_repo_add(repo_dir, files = ".")

local_repo_branch(repo_dir, branch)

local_repo_clone(
  repo,
  local_path = ".",
  branch = NULL,
  mirror = FALSE,
  verbose = FALSE
)

local_repo_commit(repo_dir, message)

local_repo_log(repo_dir, max = 100)

local_repo_pull(repo_dir, verbose = FALSE)

local_repo_push(
  repo_dir,
  remote = "origin",
  branch = NULL,
  force = FALSE,
  prompt = TRUE,
  mirror = FALSE,
  verbose = FALSE
)
```

**Arguments**

repo_dir	Vector of repo directories or a single directory containing one or more repos.
files	Files to be staged
branch	Repository branch to use.
repo	GitHub repo address with the form owner/name.
local_path	Local directory to store cloned repos.
mirror	Equivalent to --mirror
verbose	Display verbose output.
message	Commit message
max	Maximum number of log entries to retrieve per repo.
remote	Repository remote to use.
force	Force push?
prompt	Prompt before force push?

**Details**

All `local_repo_*` functions depend on the `gert` library being installed.

**Value**

`local_repo_clone()` invisibly returns a character vector of paths for the local repo directories.

`local_repo_log()` returns a tibble containing repository details.‘

All other functions invisibly return a list containing the results of the relevant call to `gert`.

**Examples**

```
## Not run:
repo = repo_create("ghclass-test", "local_repo_test")

dir = file.path(tempdir(), "repos")
local_repo = local_repo_clone(repo, dir)

local_repo_log(dir)

# Make a local change and push
writeLines("Hello World", file.path(local_repo, "hello.txt"))

local_repo_add(local_repo, "hello.txt")

local_repo_commit(local_repo, "Added hello world")

local_repo_push(local_repo)

repo_commits(repo)

# Pulling remote changes
```

```

repo_modify_file(repo, "hello.txt", pattern = ".*", content = "!!!", method = "after")

local_repo_pull(local_repo)

local_repo_log(dir)

repo_delete("ghclass-test/local_repo_test", prompt=FALSE)

## End(Not run)

```

---

local\_repo\_rename      *Rename local directories using a vector of patterns and replacements.*

---

### Description

This function is meant to help with renaming local student repos to include something more useful like Last, First name or a unique identifier for the purposes of ordering repository folders.

### Usage

```
local_repo_rename(repo_dir, pattern, replacement)
```

### Arguments

repo_dir	Character. Vector of repo directories or a single directory containing one or more repos.
pattern	Character. One or more regexp patterns to match to directory names.
replacement	Character. One or more text strings containing the replacement value for matched patterns.

### Value

Returns a character vector of the new repo directory paths, or NA if the rename failed.

---

org\_create\_assignment      *Create a team or individual assignment*

---

### Description

This is a higher level function that combines the following steps:

- Create repos
- Create teams and invite students if necessary
- Add teams or individuals to the repositories
- Mirror a template repository to assignment repositories

**Usage**

```
org_create_assignment(
  org,
  repo,
  user,
  team = NULL,
  source_repo = NULL,
  private = TRUE,
  add_badges = FALSE
)
```

**Arguments**

org	Character. Name of the GitHub organization.
repo	Character. Name of the repo(s) for the assignment.
user	Character. GitHub username(s).
team	Character. Team names, if not provided an individual assignment will be created.
source_repo	Character. Address of the repository to use as a template for all created repos.
private	Logical. Should the created repositories be private.
add_badges	Logical. Should GitHub action badges be added to the README.

**Value**

An invisible list containing the results of each step.

---

org_details	<i>Obtain details on an organization's repos and teams</i>
-------------	--

---

**Description**

- `org_exists()` - returns TRUE if the organization(s) exist on GitHub and FALSE otherwise.
- `org_teams()` - returns a (filtered) vector of organization teams.
- `org_team_details()` - returns a data frame of all organization teams containing identification and permission details.
- `org_repos()` - returns a (filtered) vector of organization repositories.
- `org_repo_search()` - search for repositories within an organization (preferred for large organizations).
- `org_repo_stats()` - returns a tibble of repositories belonging to a GitHub organization along with some basic statistics about those repositories.



**Usage**

```

org_exists(org)

org_repo_search(org, name, extra = "", full_repo = TRUE)

org_repo_stats(
  org,
  branch = NULL,
  filter = "",
  filter_type = "in:name",
  inc_commits = TRUE,
  inc_issues = TRUE,
  inc_prs = TRUE
)

org_repos(
  org,
  filter = NULL,
  exclude = FALSE,
  full_repo = TRUE,
  sort = c("full_name", "created", "updated", "pushed"),
  direction = c("asc", "desc"),
  type = c("all", "public", "private", "forks", "sources", "member", "internal")
)

org_team_details(org)

org_teams(org, filter = NULL, exclude = FALSE, team_type = c("name", "slug"))

```

**Arguments**

org	Character. Name of the GitHub organization(s).
name	Character. Full or partial repo name to search for within the org
extra	Character. Any additional search qualifiers, see <a href="#">Searching for repositories</a> for details.
full_repo	Logical. Should the full repository address be returned (e.g. owner/repo instead of just repo).
branch	Character. The branch to use for counting commits, if NULL then each repo's default branch is used.
filter	Character. Regular expression pattern for matching (or excluding) results
filter_type	Character. One or more GitHub search in qualifiers. See <a href="#">documentation</a> for more details.
inc_commits	Logical. Include commit statistics (branch, commits, last_update)
inc_issues	Logical. Include issue statistics (open_issues, closed_issues)
inc_prs	Logical. Include pull request statistics (open_prs, merged_prs, closed_prs)

exclude	Logical. Should entries matching the regular expression be excluded or included.
sort	Character. Sorting criteria to use, can be one of "created", "updated", "pushed", or "full_name".
direction	Character. Sorting order to use.
type	Character. Specifies the type of repositories you want, can be one of "all", "public", "private", "forks", "sources", "member", or "internal".
team_type	Character. Either "slug" if the team names are slugs or "name" if full team names are provided.

### Value

org\_exists() returns a logical vector.

org\_teams(), org\_repos, and org\_repo\_search() return a character vector of team or repo names.

org\_team\_details() and org\_repo\_stats() return tibbles.

### Examples

```
## Not run:
# Org repos and teams
org_repos("ghclass-test")

org_repos("ghclass-test", filter = "hw1-")

org_teams("ghclass-test")

org_team_details("ghclass-test")

## End(Not run)
```

---

org\_members

*Tools for managing organization membership*

---

### Description

- org\_invite() - invites user(s) to a GitHub organization.
- org\_remove() - remove user(s) from an organization (and all teams within that organization).
- org\_members() - returns a (filtered) vector of organization members.
- org\_pending() - returns a (filtered) vector of pending organization members.
- org\_admins() - returns a vector of repository administrators. In the case of a non-organization owner (e.g. a user account) returns the owner's login.

**Usage**

```
org_admins(org)

org_invite(org, user)

org_members(org, filter = NULL, exclude = FALSE, include_admins = TRUE)

org_pending(org, filter = NULL, exclude = FALSE)

org_remove(org, user, prompt = TRUE)
```

**Arguments**

org	Character. Name of the GitHub organization(s).
user	Character. GitHub username(s).
filter	Character. Regular expression pattern for matching (or excluding) results
exclude	Logical. Should entries matching the regular expression be excluded or included.
include_admins	Logical. Should admin users be included in the results.
prompt	Logical. Prompt before removing member from organization.

**Value**

org\_members(), org\_pending(), and org\_admins all return a character vector of GitHub account names.

org\_invite() and org\_remove() invisibly return a list containing the results of the relevant GitHub API calls.

**Examples**

```
## Not run:
# Org Details
org_admins("ghclass-test")

org_admins("rundel") # User, not an organization

# Org Membership - Invite, Status, and Remove
students = c("ghclass-anya", "ghclass-bruno", "ghclass-celine",
            "ghclass-diego", "ghclass-elijah", "ghclass-francis")

org_invite("ghclass-test", students)

org_members("ghclass-test")

org_pending("ghclass-test")

org_remove("ghclass-test", students, prompt = FALSE)
```

```
org_pending("ghclass-test")

## End(Not run)
```

---

 org\_perm

*Organization permissions*


---

### Description

- `org_sitrep()` - Provides a situation report on a GitHub organization.
- `org_set_repo_permission()` - Change the default permission level for org repositories.

`org_workflow_permissions()` - Obtain the current default workflow permission value for the organization.

`org_set_workflow_permissions()` - Change the current default workflow permission value for the organization.

### Usage

```
org_sitrep(org)
```

```
org_set_repo_permission(
  org,
  repo_permission = c("none", "read", "write", "admin")
)
```

```
org_workflow_permissions(org)
```

```
org_set_workflow_permissions(org, workflow_permission = c("read", "write"))
```

### Arguments

`org` Character. Name of the GitHub organization(s).

`repo_permission`

Default permission level members have for organization repositories:

- read - can pull, but not push to or administer this repository.
- write - can pull and push, but not administer this repository.
- admin - can pull, push, and administer this repository.
- none - no permissions granted by default.

`workflow_permission`

The default workflow permissions granted to the `GITHUB_TOKEN` when running workflows in the organization. Accepted values: "read" or "write".

**Value**

`org_sitrep()` invisibly returns the `org` argument.

`org_set_repo_permission()` invisibly return a the result of the relevant GitHub API call.

`org_workflow_permissions()` returns a character vector with value of either "read" or "write".

`org_set_workflow_permissions()` invisibly return a the result of the relevant GitHub API call.

**Examples**

```
## Not run:
org_sitrep("ghclass-test")

org_set_repo_permission("ghclass-test", "read")

org_workflow_permissions("ghclass-test")

org_set_workflow_permissions("ghclass-test", "write")

org_sitrep("ghclass-test")

# Cleanup
org_set_repo_permission("ghclass-test", "none")
org_set_workflow_permissions("ghclass-test", "read")

## End(Not run)
```

---

pages

*Retrieve information about GitHub Pages sites and builds.*

---

**Description**

- `pages_enabled()` - returns TRUE if a Pages site exists for the repo.
- `pages_status()` - returns more detailed information about a repo's Pages site.
- `pages_create()` - creates a Pages site for the provided repos.
- `pages_delete()` - deletes the Pages site for the provided repos.

**Usage**

```
pages_enabled(repo)
```

```
pages_status(repo)
```

```
pages_create(
  repo,
  build_type = c("legacy", "workflow"),
  branch = "main",
```

```

  path = "/docs"
)

pages_delete(repo)

```

### Arguments

repo	Character. Address of repositories in owner/name format.
build_type	Character. Either "workflow" or "legacy" - the former uses GitHub actions to build and publish the site (requires a workflow file to achieve this).
branch	Character. Repository branch to publish.
path	Character. Repository path to publish.

### Value

pages\_enabled() returns a named logical vector - TRUE if a Pages site exists, FALSE otherwise.  
 pages\_status() returns a tibble containing details on Pages sites.  
 pages\_create() & pages\_delete() return an invisible list containing the API responses.

### Examples

```

## Not run:
pages_enabled("rundel/ghclass")

pages_status("rundel/ghclass")

## End(Not run)

```

---

pr

*GitHub Pull Request related tools*


---

### Description

- pr\_create() - create a pull request GitHub from the base branch to the head branch.

### Usage

```
pr_create(repo, title, head, base, body = "", draft = FALSE)
```

### Arguments

repo	Character. Address of one or more repositories in "owner/name" format.
title	Character. Title of the pull request.
head	Character. The name of the branch where your changes are implemented. For cross-repository pull requests in the same network, namespace head with a user like this: username:branch.

base	Character. The name of the branch you want the changes pulled into. This should be an existing branch on the current repository. You cannot submit a pull request to one repository that requests a merge to a base of another repository.
body	Character. The text contents of the pull request.
draft	Logical. Should the pull request be created as a draft pull request (these cannot be merged until allowed by the author).

**Value**

pr\_create() invisibly return a list containing the results of the relevant GitHub API calls.

**See Also**

[repo\\_issues](#)

**Examples**

```
## Not run:
repo_create("ghclass-test", "test_pr", auto_init=TRUE)

branch_create("ghclass-test/test_pr", branch = "main", new_branch = "test")

repo_modify_file("ghclass-test/test_pr", "README.md", pattern = "test_pr",
                 content = "Hello", method = "after", branch = "test")

pr_create("ghclass-test/test_pr", title = "merge", head = "test", base = "main")

repo_delete("ghclass-test/test_pr", prompt = FALSE)

## End(Not run)
```

---

repo\_core

*GitHub Repository tools - core functions*

---

**Description**

- repo\_create() - create a GitHub repository.
- repo\_delete() - delete a GitHub repository.
- repo\_rename() - rename a repository, note that renamed repositories retain their unique identifier and can still be accessed via their old names due to GitHub re-directing.
- repo\_exists() - returns TRUE if the GitHub repository exists. It will also print a message if a repository has been renamed, unless quiet = TRUE.
- repo\_mirror() - mirror the content of a repository to another repository, the target repo must already exist.
- repo\_mirror\_template() - mirror the content of a source template repository to a new repository, the target repo must *not* already exist.
- repo\_is\_template() - returns TRUE if a repository is a template repo.
- repo\_set\_template() - change the template status of a repository.

**Usage**

```

repo_create(
  org,
  name,
  prefix = "",
  suffix = "",
  private = TRUE,
  auto_init = FALSE,
  gitignore_template = "R"
)

repo_delete(repo, prompt = TRUE)

repo_exists(repo, strict = FALSE, quiet = FALSE)

repo_is_template(repo)

repo_mirror(
  source_repo,
  target_repo,
  overwrite = FALSE,
  verbose = FALSE,
  warn = TRUE
)

repo_mirror_template(source_repo, target_repo, private = TRUE)

repo_rename(repo, new_repo)

repo_set_template(repo, status = TRUE)

```

**Arguments**

org	Character. GitHub organization that will own the repository
name	Character. Repository name
prefix	Character. Common repository name prefix
suffix	Character. Common repository name suffix
private	Logical. Should the new repository be private or public.
auto_init	Logical. Should the repository be initialized with a README.md.
gitignore_template	Character. .gitignore language template to use.
repo	Character. Address of repository in owner/repo format.
prompt	Logical. Should the user be prompted before deleting repositories. Default true.
strict	Logical. Should the old name of a renamed repositories be allowed.



quiet	Logical. Should details on renamed repositories be printed.
source_repo	Character. Address of template repository in owner/name format.
target_repo	Character. One or more repository addresses in owner/name format. Note when using template repos these new repositories must <i>not</i> exist.
overwrite	Logical. Should the target repositories be overwritten.
verbose	Logical. Display verbose output.
warn	Logical. Warn the user about the function being deprecated.
new_repo	Character. New name of repository without the owner.
status	Logical. Should the repository be set as a template repository

### Value

repo\_create() returns a character vector of created repos (in owner/repo format)

repo\_exists() and repo\_is\_template() both return a logical vector.

All other functions invisibly return a list containing the results of the relevant GitHub API calls.

### Examples

```
## Not run:
repo_create("ghclass-test", "repo_test")

repo_exists("ghclass-test/repo_test")

repo_rename("ghclass-test/repo_test", "repo_test_new")

# The new repo exists
repo_exists("ghclass-test/repo_test_new")

# The old repo forwards to the new repo
repo_exists("ghclass-test/repo_test")

# Check for the redirect by setting `strict = TRUE`
repo_exists("ghclass-test/repo_test", strict = TRUE)

# The preferred way of copying a repo is by making the source a template
repo_is_template("ghclass-test/repo_test_new")

repo_set_template("ghclass-test/repo_test_new")

repo_is_template("ghclass-test/repo_test_new")

# Given a template repo we can then directly copy the repo on GitHub
repo_mirror_template("ghclass-test/repo_test_new", "ghclass-test/repo_test_copy")

repo_exists("ghclass-test/repo_test_copy")
```

```
# Cleanup
repo_delete(
  c("ghclass-test/repo_test_new",
    "ghclass-test/repo_test_copy"),
  prompt = FALSE
)

## End(Not run)
```

---

repo\_details

*GitHub Repository tools - repository details*

---

### Description

- `repo_clone_url()` - Returns the url, for cloning, a GitHub repo (either ssh or https)
- `repo_branches()` - Returns a (filtered) vector of branch names.
- `repo_commits()` - Returns a tibble of commits to a GitHub repository.
- `repo_issues()` - Returns a tibble of issues for a GitHub repository.
- `repo_n_commits()` - Returns a tibble of the number of commits in a GitHub repository (and branch).
- `repo_prs()` - Returns a tibble of pull requests for a GitHub repository.
- `repo_pushes()` - Returns a tibble of push activity to a GitHub repository.

### Usage

```
repo_branches(repo)

repo_clone_url(repo, type = c("https", "ssh"))

repo_commits(
  repo,
  branch = NULL,
  sha = branch,
  path = NULL,
  author = NULL,
  since = NULL,
  until = NULL,
  quiet = FALSE
)

repo_issues(
  repo,
```

```

    state = c("open", "closed", "all"),
    assignee = NULL,
    creator = NULL,
    mentioned = NULL,
    labels = NULL,
    sort = c("created", "updated", "comments"),
    direction = c("desc", "asc"),
    since = NULL
)

repo_n_commits(repo, quiet = FALSE)

repo_prs(repo, state = c("open", "closed", "all"))

repo_pushes(
  repo,
  branch = NULL,
  author = NULL,
  time_period = c("all time", "day", "week", "month", "quarter", "year"),
  quiet = FALSE
)

```

### Arguments

repo	Character. Address of repository in owner/name format.
type	Character. Clone url type, either "https" or "ssh".
branch	Character. Branch to list commits from.
sha	Character. SHA to start listing commits from.
path	Character. Only commits containing this file path will be returned.
author	Character. GitHub login or email address by which to filter commit author.
since	Character. Only issues updated at or after this time are returned.
until	Character. Only commits before this date will be returned, expects YYYY-MM-DDTHH:MM:SSZ format.
quiet	Logical. Should an error message be printed if a repo does not exist.
state	Character. Pull request state.
assignee	Character. Return issues assigned to a particular username. Pass in "none" for issues with no assigned user, and "*" for issues assigned to any user.
creator	Character. Return issues created the by the given username.
mentioned	Character. Return issues that mentioned the given username.
labels	Character. Return issues labeled with one or more of of the given label names.
sort	Character. What to sort results by. Can be either "created", "updated", or "comments".
direction	Character. The direction of the sort. Can be either "asc" or "desc".
time_period	Character. The time period to filter by. Options are "all time", "day", "week", "month", "quarter", "year".

**Value**

repo\_clone\_url() and repo\_branches() both return a character vector.

repo\_commits(), repo\_issues(), repo\_n\_commits(), and repo\_prs() all return a tibble.

**Examples**

```
## Not run:
repo_clone_url("rundel/ghclass")

repo_branches("rundel/ghclass")

repo_commits("rundel/ghclass")

repo_issues("rundel/ghclass")

repo_n_commits("rundel/ghclass", branch = "master")

repo_prs("rundel/ghclass")

## End(Not run)
```

---

repo\_file

*GitHub Repository tools - file functions*

---

**Description**

- repo\_add\_file() - Add / update files in a GitHub repository. Note that due to delays in caching, files that have been added very recently might not yet be displayed as existing and might accidentally be overwritten.
- repo\_delete\_file() - Delete a file from a GitHub repository
- repo\_modify\_file() - Modify an existing file within a GitHub repository.
- repo\_ls() - Low level function for listing the files in a GitHub Repository
- repo\_put\_file() - Low level function for adding a file to a GitHub repository
- repo\_get\_file() - Low level function for retrieving the content of a file from a GitHub Repository
- repo\_get\_readme() - Low level function for retrieving the content of the README.md of a GitHub Repository

**Usage**

```
repo_add_file(
  repo,
  file,
  message = NULL,
  repo_folder = NULL,
```

```

    branch = NULL,
    preserve_path = FALSE,
    overwrite = FALSE
)

repo_delete_file(repo, path, message = NULL, branch = NULL)

repo_get_file(repo, path, branch = NULL, quiet = FALSE, include_details = TRUE)

repo_get_readme(repo, branch = NULL, include_details = TRUE)

repo_ls(repo, path = ".", branch = NULL, full_path = FALSE)

repo_modify_file(
  repo,
  path,
  pattern,
  content,
  method = c("replace", "before", "after"),
  all = FALSE,
  message = "Modified content",
  branch = NULL
)

repo_put_file(
  repo,
  path,
  content,
  message = NULL,
  branch = NULL,
  verbose = TRUE
)

```

### Arguments

repo	Character. Address of repository in owner/name format.
file	Character. Local file path(s) of file or files to be added.
message	Character. Commit message.
repo_folder	Character. Name of folder on repository to save the file(s) to. If the folder does not exist on the repository, it will be created.
branch	Character. Name of branch to use.
preserve_path	Logical. Should the local relative path be preserved.
overwrite	Logical. Should existing file or files with same name be overwritten, defaults to FALSE.
path	Character. File's path within the repository.
quiet	Logical. Should status messages be printed.

include_details	Logical. Should file details be attached as attributes. repo_delete_file()m repo_modify_file(), and repo_put_file() all invisibly return a list containing the results of the relevant GitHub API calls. repo_ls() returns a character vector of repo files in the given path. repo_get_file() and repo_get_readme() return a character vector with API results attached as attributes if include_details = TRUE
full_path	Logical. Should the function return the full path of the files and directories.
pattern	Character. Regex pattern.
content	Character or raw. Content of the file.
method	Character. Should the content replace the matched pattern or be inserted before or after the match.
all	Character. Should all instances of the pattern be modified (TRUE) or just the first (FALSE).
verbose	Logical. Should success / failure messages be printed

### Examples

```
## Not run:
repo = repo_create("ghclass-test", "repo_file_test", auto_init=TRUE)

repo_ls(repo, path = ".")

repo_get_readme(repo, include_details = FALSE)

repo_get_file(repo, ".gitignore", include_details = FALSE)

repo_modify_file(
  repo, path = "README.md", pattern = "repo_file_test",
  content = "\n\nHello world!\n", method = "after"
)

repo_get_readme(repo, include_details = FALSE)

repo_add_file(repo, file = system.file("DESCRIPTION", package="ghclass"))

repo_get_file(repo, "DESCRIPTION", include_details = FALSE)

repo_delete_file(repo, "DESCRIPTION")

repo_delete(repo, prompt=FALSE)

## End(Not run)
```

---

repo\_notification      *GitHub Repository tools - notification functions*

---

## Description

- `repo_ignore()` - Ignore a GitHub repository.
- `repo_unwatch()` - Unwatch / unsubscribe from a GitHub repository.
- `repo_watch()` - Watch / subscribe to a GitHub repository.
- `repo_watching()` - Returns a vector of your watched repositories. This should match the list at [github.com/watching](https://github.com/watching).

## Usage

```
repo_unwatch(repo)

repo_watch(repo)

repo_ignore(repo)

repo_watching(filter = NULL, exclude = FALSE)
```

## Arguments

<code>repo</code>	repository address in owner/repo format
<code>filter</code>	character, regex pattern for matching (or excluding) repositories.
<code>exclude</code>	logical, should entries matching the regex be excluded or included.

## Value

`repo_ignore()`, `repo_unwatch()`, and `repo_watch()` all invisibly return a list containing the results of the relevant GitHub API call.

`repo_watching()` returns a character vector of watched repos.

## Examples

```
## Not run:
repo_ignore("Sta323-Sp19/hw1")

repo_unwatch("rundel/ghclass")

repo_watch("rundel/ghclass")

## End(Not run)
```

---

`repo_style`*Style repository with styler*

---

**Description**

- `repo_style` implements "non-invasive pretty-printing of R source code" of .R or .Rmd files within a repository using the `styler` package and adhering to tidyverse formatting guidelines.

**Usage**

```
repo_style(  
  repo,  
  files = c("*.R", "*.Rmd"),  
  branch = "styler",  
  base,  
  create_pull_request = TRUE,  
  draft = TRUE,  
  tag_collaborators = TRUE,  
  prompt = TRUE  
)
```

**Arguments**

<code>repo</code>	Character. Address of repository in "owner/name" format.
<code>files</code>	Character or vector of characters. Names of .R and/or .Rmd files that <code>styler</code> should be applied to.
<code>branch</code>	Character. Name of new branch to be created or overwritten. Default is "styler".
<code>base</code>	Character. Name of branch that contains the .R and/or .Rmd files to be styled
<code>create_pull_request</code>	Logical. If TRUE, a pull request is created from branch to base.
<code>draft</code>	Logical. Should the pull request be created as a draft pull request? (Draft PRs cannot be merged until allowed by the author)
<code>tag_collaborators</code>	Logical. If TRUE, a message with the repository collaborators is displayed.
<code>prompt</code>	Character. Prompt the user before overwriting an existing branch.

**Value**

The functions returns NULL invisibly.



**Description**

- `repo_add_user()` - Add a user to a repository
- `repo_remove_user()` - Remove a user from a repository
- `repo_add_team()` - Add a team to a repository
- `repo_remove_team()` - Remove a team from a repository
- `repo_user_permission()` - Change a collaborator's permissions for a repository
- `repo_team_permission()` - Change a team's permissions for a repository
- `repo_collaborators()` - Returns a data frame of repos, their collaborators, and their permissions.
- `repo_contributors()` - Returns a data frame containing details on repository contributor(s).

**Usage**

```
repo_add_team(  
  repo,  
  team,  
  permission = c("push", "pull", "admin", "maintain", "triage"),  
  team_type = c("name", "slug")  
)  
  
repo_team_permission(  
  repo,  
  team,  
  permission = c("push", "pull", "admin", "maintain", "triage"),  
  team_type = c("name", "slug")  
)  
  
repo_add_user(  
  repo,  
  user,  
  permission = c("push", "pull", "admin", "maintain", "triage")  
)  
  
repo_user_permission(  
  repo,  
  user,  
  permission = c("push", "pull", "admin", "maintain", "triage")  
)  
  
repo_collaborators(repo, include_admins = TRUE)
```

```
repo_contributors(repo)

repo_remove_team(repo, team, team_type = c("name", "slug"))

repo_remove_user(repo, user)
```

### Arguments

repo	Character. Address of repository in owner/repo format.
team	Character. Slug or name of team to add.
permission	Character. Permission to be granted to a user or team for repo, defaults to "push".
team_type	Character. Either "slug" if the team names are slugs or "name" if full team names are provided.
user	Character. One or more GitHub usernames.
include_admins	Logical. If FALSE, user names of users with Admin rights are not included, defaults to TRUE.

### Details

Permissions can be set to any of the following:

- "pull" - can pull, but not push to or administer this repository.
- "push" - can pull and push, but not administer this repository.
- "admin" - can pull, push and administer this repository.
- "maintain" - Recommended for project managers who need to manage the repository without access to sensitive or destructive actions.
- "triage" - Recommended for contributors who need to proactively manage issues and pull requests without write access.

### Value

repo\_collaborators() and repo\_contributors return a tibble.

All other functions invisibly return a list containing the results of the relevant GitHub API calls.

### Examples

```
## Not run:
repo = repo_create("ghclass-test", "hw1")

team_create("ghclass-test", "team_awesome")

repo_add_user(repo, "rundel")

repo_add_team(repo, "team_awesome")

repo_remove_team(repo, "team_awesome")

repo_collaborators(repo)
```

```

repo_contributors(repo)
repo_contributors("rundel/ghclass")

# Cleanup
repo_delete(repo, prompt=FALSE)

## End(Not run)

```

---

team	<i>Create, delete, and rename teams within an organization</i>
------	--

---

### Description

- `team_create()` - create teams in a GitHub organization
- `team_delete()` - delete a team from a GitHub organization.
- `team_rename()` - rename an existing team

### Usage

```

team_create(
  org,
  team,
  prefix = "",
  suffix = "",
  privacy = c("secret", "closed")
)

team_delete(org, team, team_type = c("name", "slug"), prompt = TRUE)

team_rename(org, team, new_team, team_type = c("name", "slug"))

```

### Arguments

<code>org</code>	Character. Name of the GitHub organization.
<code>team</code>	Character. Name of teams.
<code>prefix</code>	Character. Shared prefix.
<code>suffix</code>	Character. Shared suffix.
<code>privacy</code>	Character. Level of privacy for team, "closed" (visible to all members of the organization) or "secret" (only visible to organization owners and members of a team), default is "closed"
<code>team_type</code>	Character. Either "slug" if the team names are slugs or "name" if full team names are provided.
<code>prompt</code>	Logical. Should the user be prompted before deleting team. Default true.
<code>new_team</code>	character, new team name.

**Value**

All functions invisibly return a list containing the results of the relevant GitHub API calls.

**Examples**

```
## Not run:
team_create("ghclass-test",c("hw1-team01","hw1-team02"))

org_teams("ghclass-test", "hw1-")

team_rename("ghclass-test", "hw1-team02", "hw1-team03")

org_teams("ghclass-test", "hw1-")

team_delete("ghclass-test", "hw1-team01", prompt = FALSE)

org_teams("ghclass-test", "hw1-")

# Cleanup
team_delete("ghclass-test", org_teams("ghclass-test", "hw1-"), prompt = FALSE)

## End(Not run)
```

---

team_members	<i>Tools for inviting, removing, and managing members of an organization team</i>
--------------	---

---

**Description**

- team\_invite() - add members to team(s).
- team\_remove() - remove members from team(s).
- team\_members() - returns a tibble of team members.
- team\_pending() - returns a tibble of pending team members.
- team\_repos() - returns a tibble of teams and their repos.

**Usage**

```
team_invite(org, user, team, team_type = c("name", "slug"))

team_members(org, team = org_teams(org), team_type = c("name", "slug"))

team_pending(org, team = org_teams(org), team_type = c("name", "slug"))

team_remove(org, user, team, team_type = c("name", "slug"))

team_repos(org, team = org_teams(org), team_type = c("name", "slug"))
```

**Arguments**

org	Character. Name of the GitHub organization.
user	Character. One or more GitHub users to invite.
team	Character. Name of teams.
team_type	Character. Either "slug" if the team names are slugs or "name" if full team names are provided.

**Value**

team\_members(), team\_pending(), and team\_repos() all return a tibble.  
 team\_invite() and team\_remove() invisibly return a list containing the results of the relevant GitHub API calls.

**Examples**

```
## Not run:
team_create("ghclass-test", c("hw1-team01", "hw1-team02"))

team_invite("ghclass-test", user = "rundel", team = c("hw1-team01", "hw1-team02", "missing_team"))

team_remove("ghclass-test", user = "rundel", team = c("hw1-team01", "missing_team"))

team_members("ghclass-test", org_teams("ghclass-test", "hw1-"))

team_pending("ghclass-test", org_teams("ghclass-test", "hw1-"))

# Add team repo
repo_create("ghclass-test", name = "hw1-team02")
repo_add_team("ghclass-test/hw1-team02", team = "hw1-team02")

team_repos("ghclass-test", org_teams("ghclass-test", "hw1-"))

# Cleanup
repo_delete("ghclass-test/hw1-team02", prompt = FALSE)
team_delete("ghclass-test", org_teams("ghclass-test", "hw1-"), prompt = FALSE)

## End(Not run)
```

---

 user

*GitHub user related tools*


---

**Description**

- user\_exists() - returns TRUE if the username(s) (or organization) exist on GitHub and FALSE otherwise. Note that GitHub considers organizations to be a type of user.
- user\_repos() - returns a (filtered) vector of repositories belonging to the user.
- user\_type() - returns a vector of the accounts' types.

**Usage**

```
user_exists(user)

user_repos(
  user,
  type = c("owner", "all", "public", "private", "member"),
  filter = NULL,
  exclude = FALSE,
  full_repo = TRUE
)

user_type(user)
```

**Arguments**

user	Character. GitHub username(s).
type	Character. Can be one of "all", "owner", "public", "private", "member".
filter	Character. Regular expression pattern for matching (or excluding) repositories.
exclude	Logical. Should entries matching the regular expression in filter be excluded or included?
full_repo	Logical. Should the full repository address be returned (e.g. owner/repo instead of just repo)?

**Value**

user\_exists() returns a logical vector.  
user\_repos() and user\_type() return a character vector.

**Examples**

```
## Not run:
user_exists(c("rundel", "ghclass-test", "hopefullydoesnotexist"))

user_repos("rundel", type = "public", filter = "ghclass")

user_repos("ghclass-test")

org_repos("ghclass-test")

user_type(c("rundel", "ghclass-test"))

## End(Not run)
```

# Index

action, 2  
action\_add\_badge (action\_badge), 4  
action\_artifact\_delete (action), 2  
action\_artifact\_download (action), 2  
action\_artifacts (action), 2  
action\_badge, 4  
action\_remove\_badge (action\_badge), 4  
action\_runs (action), 2  
action\_runtime (action), 2  
action\_status (action), 2  
action\_workflows (action), 2

branch, 5  
branch\_create (branch), 5  
branch\_delete (branch), 5  
branch\_remove (branch), 5

gh::gh\_token(), 9  
github\_api\_limit, 6  
github\_get\_api\_limit  
    (github\_api\_limit), 6  
github\_get\_token (github\_rate\_limit), 8  
github\_graphql\_rate\_limit  
    (github\_rate\_limit), 8  
github\_orgs, 7  
github\_rate\_limit, 8  
github\_reset\_token (github\_rate\_limit),  
    8  
github\_set\_api\_limit  
    (github\_api\_limit), 6  
github\_set\_token (github\_rate\_limit), 8  
github\_test\_token (github\_rate\_limit), 8  
github\_token (github\_rate\_limit), 8  
github\_token\_scopes  
    (github\_rate\_limit), 8  
github\_whoami, 9  
github\_with\_pat, 10

issue, 11  
issue\_close (issue), 11  
issue\_create (issue), 11  
issue\_edit (issue), 11

local\_pat (github\_with\_pat), 10  
local\_repo, 13  
local\_repo\_add (local\_repo), 13  
local\_repo\_branch (local\_repo), 13  
local\_repo\_clone (local\_repo), 13  
local\_repo\_commit (local\_repo), 13  
local\_repo\_log (local\_repo), 13  
local\_repo\_pull (local\_repo), 13  
local\_repo\_push (local\_repo), 13  
local\_repo\_rename, 15

org\_admins (org\_members), 18  
org\_create\_assignment, 15  
org\_details, 16  
org\_exists (org\_details), 16  
org\_invite (org\_members), 18  
org\_members, 18  
org\_pending (org\_members), 18  
org\_perm, 20  
org\_remove (org\_members), 18  
org\_repo\_search (org\_details), 16  
org\_repo\_stats (org\_details), 16  
org\_repos (org\_details), 16  
org\_set\_repo\_permission (org\_perm), 20  
org\_set\_workflow\_permissions  
    (org\_perm), 20  
org\_sitrep (org\_perm), 20  
org\_team\_details (org\_details), 16  
org\_teams (org\_details), 16  
org\_workflow\_permissions (org\_perm), 20

pages, 21  
pages\_create (pages), 21  
pages\_delete (pages), 21  
pages\_enabled (pages), 21  
pages\_status (pages), 21  
pr, 22

pr\_create (pr), 22

repo\_add\_file (repo\_file), 28

repo\_add\_team (repo\_user), 33

repo\_add\_user (repo\_user), 33

repo\_branches, 6

repo\_branches (repo\_details), 26

repo\_clone (local\_repo), 13

repo\_clone\_url (repo\_details), 26

repo\_collaborators (repo\_user), 33

repo\_commits (repo\_details), 26

repo\_contributors (repo\_user), 33

repo\_core, 23

repo\_create (repo\_core), 23

repo\_delete (repo\_core), 23

repo\_delete\_file (repo\_file), 28

repo\_details, 26

repo\_exists (repo\_core), 23

repo\_file, 28

repo\_get\_file (repo\_file), 28

repo\_get\_readme (repo\_file), 28

repo\_ignore (repo\_notification), 31

repo\_is\_template (repo\_core), 23

repo\_issues, 12, 23

repo\_issues (repo\_details), 26

repo\_ls (repo\_file), 28

repo\_mirror (repo\_core), 23

repo\_mirror\_template (repo\_core), 23

repo\_modify\_file (repo\_file), 28

repo\_n\_commits (repo\_details), 26

repo\_notification, 31

repo\_prs (repo\_details), 26

repo\_pushes (repo\_details), 26

repo\_put\_file (repo\_file), 28

repo\_remove\_team (repo\_user), 33

repo\_remove\_user (repo\_user), 33

repo\_rename (repo\_core), 23

repo\_set\_template (repo\_core), 23

repo\_style, 32

repo\_team\_permission (repo\_user), 33

repo\_unwatch (repo\_notification), 31

repo\_user, 33

repo\_user\_permission (repo\_user), 33

repo\_watch (repo\_notification), 31

repo\_watching (repo\_notification), 31

team, 35

team\_create (team), 35

team\_delete (team), 35

team\_invite (team\_members), 36

team\_members, 36

team\_pending (team\_members), 36

team\_remove (team\_members), 36

team\_rename (team), 35

team\_repos (team\_members), 36

user, 37

user\_exists (user), 37

user\_repos (user), 37

user\_type (user), 37

with\_pat (github\_with\_pat), 10