

# Package ‘gitlabr’

April 25, 2017

**Title** Access to the Gitlab API

**Version** 0.9

**Description** Provides R functions to access the API of the project and repository management web application gitlab. For many common tasks (repository file access, issue assignment and status, commenting) convenience wrappers are provided, and in addition the full API can be used by specifying request locations. Gitlab is open-source software and can be self-hosted or used on gitlab.com.

**Depends** R (>= 3.1.2), magrittr

**Imports** dplyr (>= 0.4.3), stringr, base64enc, httr (>= 1.1.0), purrr (>= 0.2.2), tibble (>= 1.1), utils, yaml

**Suggests** devtools (>= 1.8.0), roxygen2, testthat (>= 1.0.2), R.rsp, knitr, shiny (>= 0.13.0)

**URL** <https://blog.points-of-interest.cc/post/gitlabr/>  
<http://doc.gitlab.com/ce/api/>

**BugReports** <https://gitlab.points-of-interest.cc/points-of-interest/gitlabr/issues/>

**VignetteBuilder** R.rsp

**License** GPL (>= 3)

**LazyData** true

**RoxygenNote** 5.0.1

**NeedsCompilation** no

**Author** Jirka Lewandowski [aut, cre]

**Maintainer** Jirka Lewandowski <jirka.lewandowski@wzb.eu>

**Repository** CRAN

**Date/Publication** 2017-04-25 21:38:36 UTC

**R topics documented:**

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---

 gitlab

*Request Gitlab API*


---

**Description**

This is gitlabr's core function to talk to Gitlab's server API via HTTP(S). Usually you will not use this function directly too often, but either use gitlabr's convenience wrappers or write your own. See the gitlabr vignette for more information on this.

**Usage**

```
gitlab(req, api_root, verb = httr::GET, auto_format = TRUE, debug = FALSE,
  gitlab_con = "default", page = "all", enforce_api_root = TRUE,
  argname_verb = if (identical(verb, httr::GET) | identical(verb,
  httr::DELETE)) { "query" } else { "body" }, ...)
```

**Arguments**

|                               |   |
|-------------------------------|---|
| <code>req</code>              | vector of characters that represents the call (e.g. <code>c("projects", project_id, "events")</code> )  |
| <code>api_root</code>         | URL where the gitlab API to request resides (e.g. <code>https://gitlab.myserver.com/api/v3/</code> )  |
| <code>verb</code>             | http verb to use for request in form of one of the <code>httr</code> functions <a href="#">GET</a> , <a href="#">PUT</a> , <a href="#">POST</a> , <a href="#">DELETE</a>  |
| <code>auto_format</code>      | whether to format the returned object automatically to a flat <code>data.frame</code>   |
| <code>debug</code>            | if TRUE API URL and query will be printed, defaults to FALSE  |
| <code>gitlab_con</code>       | function to use for issuing API requests (e.g. as returned by <a href="#">gitlab_connection</a> )   |
| <code>page</code>             | number of page of API response to get; if "all" (default), all pages are queried successively and combined.   |
| <code>enforce_api_root</code> | if multiple pages are requested, the API root URL is ensured to be the same as in the original call for all calls using the "next page" URL returned by gitlab. This makes sense for security and in cases where gitlab is behind a reverse proxy and ignorant about its URL from external. |
| <code>argname_verb</code>     | name of the argument of the verb that fields and information are passed on to   |
| <code>...</code>              | named parameters to pass on to gitlab API (technically: modifies query parameters of request URL), may include <code>private_token</code> and all other parameters as documented for the Gitlab API   |

**Details**

Note: currently gitlab API v3 is supported. Support for Gitlab API v4 (for Gitlab version  $\geq 9.0$ ) will be added soon.

**Value**

the response from the Gitlab API, usually as a `'data_frame'` and including all pages

**Examples**

```
## Not run:
gitlab(req = "projects",
       api_root = "https://gitlab.example.com/api/v4/",
       private_token = "123####89")
gitlab(req = c("projects", 21, "issues"),
       state = "closed",
       gitlab_con = my_gitlab)

## End(Not run)
```

---

gitlabr

*Interface to gitlab API on high and low levels*

---

### Description

gitlabr R package

### Details

Interface to gitlab API on high and low levels

|           |            |
|-----------|------------|
| Package:  | gitlabr    |
| Type:     | Package    |
| License:  | GPL (>= 3) |
| LazyLoad: | yes        |

### Author(s)

Jirka Lewandowski <jirka.lewandowski@wzb.eu>

### References

<http://blog.points-of-interest.cc/>

---

gitlabr-deprecated

*Deprecated functions*

---

### Description

Many functions were renamed with version 0.7 to the `gl_` naming scheme. Note that the old function names will be removed with version 1.0, expected to be released in 2017.

### Usage

`archive(...)`

`assign_issue(...)`

`close_issue(...)`

`comment_commit(...)`

`comment_issue(...)`

create\_branch(...)  
create\_merge\_request(...)  
delete\_branch(...)  
edit\_commit\_comment(...)  
edit\_issue(...)  
edit\_issue\_comment(...)  
file\_exists(...)  
get\_comments(...)  
get\_commit\_comments(...)  
get\_commits(...)  
get\_diff(...)  
get\_file(...)  
get\_issue(...)  
get\_issue\_comments(...)  
get\_issues(...)  
get\_project\_id(...)  
gitlab\_connection(...)  
list\_branches(...)  
list\_files(...)  
list\_projects(...)  
new\_issue(...)  
project\_connection(...)  
proj\_req(...)  
push\_file(...)

```
reopen_issue(...)
repository(...)
to_issue_id(...)
unassign_issue(...)
```

## Arguments

... Parameters to the new function

## Details

|                      |                                       |
|----------------------|---------------------------------------|
| archive              | is now called gl_archive              |
| assign_issue         | is now called gl_assign_issue         |
| close_issue          | is now called gl_close_issue          |
| comment_commit       | is now called gl_comment_commit       |
| comment_issue        | is now called gl_comment_issue        |
| create_branch        | is now called gl_create_branch        |
| create_merge_request | is now called gl_create_merge_request |
| delete_branch        | is now called gl_delete_branch        |
| edit_commit_comment  | is now called gl_edit_commit_comment  |
| edit_issue           | is now called gl_edit_issue           |
| edit_issue_comment   | is now called gl_edit_issue_comment   |
| file_exists          | is now called gl_file_exists          |
| get_comments         | is now called gl_get_comments         |
| get_commit_comments  | is now called gl_get_commit_comments  |
| get_commits          | is now called gl_get_commits          |
| get_diff             | is now called gl_get_diff             |
| get_file             | is now called gl_get_file             |
| get_issue            | is now called gl_get_issue            |
| get_issue_comments   | is now called gl_get_issue_comments   |
| get_issues           | is now called gl_list_issues          |
| get_project_id       | is now called gl_get_project_id       |
| gitlab_connection    | is now called gl_connection           |
| list_branches        | is now called gl_list_branches        |
| list_files           | is now called gl_list_files           |
| list_projects        | is now called gl_list_projects        |
| new_issue            | is now called gl_new_issue            |
| project_connection   | is now called gl_project_connection   |
| proj_req             | is now called gl_proj_req             |
| push_file            | is now called gl_push_file            |
| reopen_issue         | is now called gl_reopen_issue         |
| repository           | is now called gl_repository           |
| to_issue_id          | is now called gl_to_issue_id          |
| unassign_issue       | is now called gl_unassign_issue       |

---

gitlabr\_0\_7\_renaming *renamings from gitlabr version 0.6.4 to 0.7*

---

### Description

List of of old and new function name. Used internally by [update\\_gitlabr\\_code](#)

### Format

A data frame with 33 rows and 2 variables

---

glLoginInput *Shiny module to login to gitlab API*

---

### Description

The UI contains a login and a password field as well as an (optional) login button. The server side function returns a reactive gitlab connection, just as [gl\\_connection](#) and [gl\\_project\\_connection](#).

### Usage

```
glLoginInput(id, login_button = TRUE)
```

```
glReactiveLogin(input, output, session, gitlab_url, project = NULL,
  success_message = "Gitlab login successful!",
  failure_message = "Gitlab login failed!", on_error = function(...) {
    stop(failure_message) })
```

### Arguments

|                 |  |
|-----------------|--|
| id              | shiny namespace for the login module   |
| login_button    | whether to show a login button (TRUE) or be purely reactive (FALSE)                  |
| input           | from shinyServer function, usually not user provided                                 |
| output          | from shinyServer function, usually not user provided                                 |
| session         | from shinyServer function, usually not user provided                                 |
| gitlab_url      | root URL of gitlab instance to login to  |
| project         | if not NULL, a code <a href="#">gl_project_connection</a> is created to this project |
| success_message | message text to be displayed in the UI on successful login                           |
| failure_message | message text to be displayed in the UI on login failure in addition to HTTP status   |
| on_error        | function to be returned instead of gitlab connection in case of login failure        |

## Details

glLoginInput is supposed to be used inside a shinyUI, while glReactiveLogin is supposed to be passed on to [callModule](#)

---

|            |   |
|------------|---|
| gl_archive | <i>Get zip archive of a specific repository</i> |
|------------|---|

---

## Description

Get zip archive of a specific repository

## Usage

```
gl_archive(project, save_to_file = tempfile(fileext = ".zip"), ...)
```

## Arguments

|              |   |
|--------------|---|
| project      | Project name or id  |
| save_to_file | path where to save archive; if this is NULL, the archive itself is returned as a raw vector                             |
| ...          | further parameters passed on to <a href="#">gitlab</a> API call, may include parameter sha for specifying a commit hash |

## Value

if save\_to\_file is NULL, a raw vector of the archive, else the path to the saved archived file

## Examples

```
## Not run:  
my_project <- gl_project_connection(project = "example-project", ...) ## fill in login parameters  
my_project(gl_archive, save_to_file = "example-project.zip")  
  
## End(Not run)
```



---

|           |                              |
|-----------|------------------------------|
| gl_ci_job | <i>Define Gitlab CI jobs</i> |
|-----------|------------------------------|

---

**Description**

Define Gitlab CI jobs

**Usage**

```
gl_ci_job(job_name, stage = job_name, allowed_dependencies = c(), ...)

gl_default_ci_pipeline()

use_gitlab_ci(pipeline = gl_default_ci_pipeline(),
  image = "rocker/r-devel:latest", push_to_remotes = c(),
  path = ".gitlab-ci.yml", overwrite = TRUE, add_to_Rbuildignore = TRUE)
```

**Arguments**

|                      |   |
|----------------------|---|
| job_name             | Name of job template to get CI definition elements  |
| stage                | Name of stage job belongs to  |
| allowed_dependencies | List of job names that are allowed to be listed as dependencies of jobs. Usually this is all existing other jobs.   |
| ...                  | passed on to ci_r_script: booleans vanilla or slave translate to R executable options with the same name  |
| pipeline             | a CI pipeline defined as a list of lists  |
| image                | Docker image to use in gitlab ci. If NULL, not specified!   |
| push_to_remotes      | named list of remotes the code should be pushed to. Only master is pushed and for every remote a job of stage "push" is generated. See example for how to use credentials from environment variables. |
| path                 | destination path for writing gitlab CI yml file   |
| overwrite            | whether to overwrite existing gitlab CI yml file  |
| add_to_Rbuildignore  | add CI yml file (from path) to .Rbuildignore?   |

**Examples**

```
gl_ci_job("build", allowed_dependencies = "test")
use_gitlab_ci(image = "pointsofinterest/gitlabr:latest")
use_gitlab_ci(image = "pointsofinterest/gitlabr:latest",
  push_to_remotes = list("github" =
  "https://${GITHUB_USERNAME}:${GITHUB_PASSWORD}@github.com/jirkalewandowski/gitlabr.git"))
```

---

|               |  |
|---------------|--|
| gl_connection | <i>Connect to a specific gitlab instance API</i> |
|---------------|--|

---

### Description

Creates a function that can be used to issue requests to the specified gitlab API instance with the specified user private token and (for gl\_project\_connection) only to a specified project.

### Usage

```
gl_connection(gitlab_url, login = NULL, email = NULL, password = NULL,
  private_token = NULL, api_version = "v4", api_location = paste0("/api/",
  api_version, "/"))
```

```
gl_project_connection(gitlab_url, project, login = NULL, email = NULL,
  password = NULL, private_token = NULL, api_version = "v4",
  api_location = paste0("/api/", api_version, "/"))
```

### Arguments

|               |  |
|---------------|--|
| gitlab_url    | URL to the gitlab instance (e.g. https://gitlab.myserver.com)  |
| login         | name of user to login; either this or email or private token must be specified                                   |
| email         | email of user to login; either this or login or private token must be specified                                  |
| password      | password of user to login; if no private token but login or email is given, this must be specified               |
| private_token | private_token with which to identify; either this or login/email + password must be specified to init connection |
| api_version   | Either "v3" or "v4" for one of the two gitlab API version. See Details section on API versions.                  |
| api_location  | location of the gitlab API under the gitlab_url, usually and by default "/api/\$api_version/"                    |
| project       | id or name of project to issue requests to   |

### Details

The returned function should serve as the primary way to access the gitlab API in the following. It can take vector/character arguments in the same way as the function `gitlab` does, as well as the convenience functions provided by this package or written by the user. If it is passed such that function it calls it with the arguments provided in `...` and the gitlab URL, api location and private\_token provided when creating it via `gl_connection`.

Note: currently gitlab API v3 is supported. Support for Gitlab API v4 (for Gitlab version  $\geq 9.0$ ) will be added soon.

### Value

A function to access a specific gitlab API as a specific user, see details

**API versions**

Currently (April 2017, Gitlab version 9.0), Gitlab provides two API versions "v3" and "v4", where "v3" is deprecated and to be removed soon from Gitlab. "v4" is the standard API since Gitlab version 9.0. gitlabr supports both API versions, since "v3" was the standard until very recently. gitlabr will support API v3 until gitlabr 1.0 (to be released in 2017), with which it will become deprecated also in gitlabr. "v4" is the default setting in gitlabr from version 0.9 on.

For some functions, where the API endpoints differ in logic, a parameter 'force\_api\_v3' is provided with functions to enforce API v3 logic. This has to be set manually with each call in addition to the api\_version parameter of the connection. Rather than using this parameter, it is intended to update your Gitlab installation to support API v4. Use this parameter only as a workaround when this is not possible!

**Examples**

```
## Not run:
my_gitlab <- gl_connection("http://gitlab.example.com", "123###89")
my_gitlab("projects")
my_gitlab(gl_get_file, "test-project", "README.md", ref = "dev")

## End(Not run)
```

---

gl\_create\_merge\_request

*Create a merge request*

---

**Description**

Create a merge request

**Usage**

```
gl_create_merge_request(project, source_branch, target_branch = "master",
  title, description, verb = httr::POST, ...)
```

**Arguments**

|               |   |
|---------------|---|
| project       | name or id of project (not repository!)   |
| source_branch | name of branch to be merged   |
| target_branch | name of branch into which to merge  |
| title         | title of the merge request  |
| description   | description text for the merge request  |
| verb          | is ignored, will always be forced to match the action the function name indicates             |
| ...           | passed on to <a href="#">gitlab</a> . Might contain more fields documented in gitlab API doc. |

---

gl\_get\_comments      *Get the comments/notes of a commit or issue*

---

### Description

Get the comments/notes of a commit or issue

### Usage

```
gl_get_comments(object_type = "issue", id, note_id = c(), project, ...)
```

```
gl_get_issue_comments(...)
```

```
gl_get_commit_comments(...)
```

```
gl_comment_commit(project, id, text, ...)
```

```
gl_comment_issue(project, id, text, ...)
```

```
gl_edit_comment(object_type, text, ...)
```

```
gl_edit_issue_comment(...)
```

```
gl_edit_commit_comment(...)
```

### Arguments

|             |   |
|-------------|---|
| object_type | one of "issue" or "commit". Snippets and merge_requests are not implemented yet.  |
| id          | id of object: sha for commits, not issues notes/comments: (project-wide) id for api version 4, (global) iid for api version 3 |
| note_id     | id of note  |
| project     | project name or id  |
| ...         | passed on to <a href="#">gitlab</a> API call. See Details.  |
| text        | Text of comment/note to add or edit (translates to gitlab API note/body respectively)   |

### Details

For gl\_comment\_commit ... might also contain path, line and line\_type (old or new) to attach the comment to a specific in a file. See <http://doc.gitlab.com/ce/api/commits.html>

**Examples**

```
## Not run:
my_project <- gl_project_connection(project = "testor"...) ## fill in login parameters
my_project(gl_get_comments, "issue", 1)
my_project(gl_get_comments, "commit", "8ce5ef240123cd78c1537991e5de8d8323666b15")
my_project(gl_comment_issue, 1, text = "Almost done!")

## End(Not run)
```

---

gl\_get\_commits      *Get commits and diff from a project repository*

---

**Description**

Get commits and diff from a project repository

**Usage**

```
gl_get_commits(project, commit_sha = c(), ...)

gl_get_diff(project, commit_sha, ...)
```

**Arguments**

|            |  |
|------------|--|
| project    | project name or id   |
| commit_sha | if not null, get only the commit with the specific hash; for gl_get_diff this must be specified                      |
| ...        | passed on to <a href="#">gitlab</a> API call, may contain ref_name for specifying a branch or tag to list commits of |

---

gl\_get\_project\_id      *Get a project id by name*

---

**Description**

Get a project id by name

**Usage**

```
gl_get_project_id(project_name, verb = httr::GET, auto_format = TRUE, ...)
```

**Arguments**

|              |  |
|--------------|--|
| project_name | project name   |
| verb         | ignored; all calls with this function will have <a href="#">gitlab</a> 's default verb httr::GET |
| auto_format  | ignored  |
| ...          | passed on to <a href="#">gitlab</a>  |

---

|                  |   |
|------------------|---|
| gl_list_branches | <i>List, create and delete branches</i> |
|------------------|---|

---

**Description**

List, create and delete branches

List, create and delete branches

List, create and delete branches

**Usage**

```
gl_list_branches(project, verb = httr::GET, ...)
```

```
gl_create_branch(project, branch_name, ref = "master", verb = httr::POST,
  ...)
```

```
gl_delete_branch(project, branch_name, verb = httr::POST, ...)
```

**Arguments**

|             |   |
|-------------|---|
| project     | name or id of project (not repository!)   |
| verb        | is ignored, will always be forced to match the action the function name indicates |
| ...         | passed on to <a href="#">gitlab</a>   |
| branch_name | name of branch to create/delete   |
| ref         | ref name of origin for newly created branch                                       |

---

|                |  |
|----------------|--|
| gl_list_issues | <i>Get issues of a project or user</i> |
|----------------|--|

---

**Description**

Get issues of a project or user

**Usage**

```
gl_list_issues(project = NULL, issue_id = NULL, verb = httr::GET,
  force_api_v3 = FALSE, ...)
```

```
gl_get_issue(issue_id, project, ...)
```

**Arguments**

|              |  |
|--------------|--|
| project      | project name or id, may be null for all issues created by user   |
| issue_id     | optional issue id (projectwide; for API v3 only you can use global iid when force_api_v3 is 'TRUE')  |
| verb         | ignored; all calls with this function will have <a href="#">gitlab</a> 's default verb <code>httr::GET</code>  |
| force_api_v3 | a switch to force deprecated gitlab API v3 behavior that allows filtering by global iid. If 'TRUE' filtering happens by global iid, if false, it happens by projectwide ID. For API v4, this must be FALSE (default) |
| ...          | further parameters passed on to <a href="#">gitlab</a> , may be state, labels, issue id, ...   |

**Details**

`gl_get_issue` provides a wrapper with swapped arguments for convenience, esp. when using a project connection

**Examples**

```
## Not run:
my_project <- gl_project_connection(project = "testor"...) ## fill in login parameters
my_project(gl_list_issues)
my_project(gl_get_issue, 1)
my_project(gl_new_issue, 1, "Implement new feature", description = "It should be awesome.")

## End(Not run)
```

---

`gl_list_projects`      *List projects in Gitlab*

---

**Description**

List projects in Gitlab

**Usage**

```
gl_list_projects(...)
```

**Arguments**

...                    passed on to [gitlab](#)

**Examples**

```
## Not run:
my_gitlab <- gl_connection(...) ## fill in login parameters
my_gitlab(gl_list_projects)

## End(Not run)
```

---

|              |                                     |
|--------------|-------------------------------------|
| gl_new_issue | <i>Post a new issue or edit one</i> |
|--------------|-------------------------------------|

---

**Description**

Post a new issue or edit one

Post a new issue or edit one

**Usage**

```
gl_new_issue(title, project, ...)
```

```
gl_edit_issue(issue_id, project, force_api_v3 = FALSE, ...)
```

```
gl_close_issue(issue_id, project, ...)
```

```
gl_reopen_issue(issue_id, project, ...)
```

```
gl_assign_issue(issue_id, assignee_id = NULL, project, ...)
```

```
gl_unassign_issue(issue_id, project, ...)
```

**Arguments**

|              |  |
|--------------|--|
| title        | title of the issue   |
| project      | project where the issue should be posted   |
| ...          | further parameters passed to the API call, may contain description, assignee_id, milestone_id, labels, state_event (for edit_issue).   |
| issue_id     | issue id (projectwide; for API v3 only you can use global iid when force_api_v3 is 'TRUE' although this is not recommended!)   |
| force_api_v3 | a switch to force deprecated gitlab API v3 behavior that allows filtering by global iid. If 'TRUE' filtering happens by global iid, if false, it happens by projectwide ID. For API v4, this must be FALSE (default) |
| assignee_id  | numeric id of users as returned in '/users/' API request   |

---

|              |                                    |
|--------------|------------------------------------|
| gl_pipelines | <i>Access the Gitlab CI builds</i> |
|--------------|------------------------------------|

---

**Description**

List the jobs with gl\_jobs, the pipelines with gl\_pipelines or download the most recent artifacts archive with gl\_latest\_build\_artifact. For every branch and job combination only the most recent artifacts archive is available. gl\_builds is the equivalent for gitlab API v3.



**Usage**

```

gl_pipelines(project, ...)

gl_jobs(project, ...)

gl_builds(project, force_api_v3 = TRUE, ...)

gl_latest_build_artifact(project, job, ref_name = "master",
  save_to_file = tempfile(fileext = ".zip"), ...)

```

**Arguments**

|              |   |
|--------------|---|
| project      | project name or id, required  |
| ...          | passed on to <a href="#">gitlab</a> API call  |
| force_api_v3 | Since gl_builds is no longer working for Gitlab API v4, this must be set to TRUE in order to avoid deprecation warning and HTTP error. It currently default to TRUE, but this will change with gitlabr 1.0. |
| job          | Name of the job to get build artifacts from   |
| ref_name     | name of ref (i.e. branch, commit, tag)  |
| save_to_file | either a path where to store .zip file or NULL if raw should be returned  |

**Value**

returns the file path if save\_to\_file is TRUE, or the archive as raw otherwise.

**Examples**

```

## Not run:
my_gitlab <- gl_connection(...) ## fill in login parameters
my_gitlab(gl_pipelines, "test-project")
my_gitlab(gl_jobs, "test-project")
my_gitlab(gl_latest_build_artifact, "test-project", job = "build")

## End(Not run)

```

---

gl\_proj\_req

*Create a project specific request*


---

**Description**

Prefixes the request location with "project/:id" and automatically translates project names into ids

**Usage**

```
gl_proj_req(project, req, ...)
```

**Arguments**

|         |  |
|---------|--|
| project | project name or id                             |
| req     | character vector of request location           |
| ...     | passed on to <a href="#">gl_get_project_id</a> |

---

|              |   |
|--------------|---|
| gl_push_file | <i>Upload a file to a gitlab repository</i> |
|--------------|---|

---

**Description**

If the file already exists, it is updated/overwritten by default

**Usage**

```
gl_push_file(project, file_path, content, commit_message,
             branch_name = "master", overwrite = TRUE, ...)
```

**Arguments**

|                |   |
|----------------|---|
| project        | Project name or id  |
| file_path      | path where to store file in gl_repository                                   |
| content        | file content (text)   |
| commit_message | Message to use for commit with new/updated file                             |
| branch_name    | name of branch where to append newly generated commit with new/updated file |
| overwrite      | whether to overwrite files that already exist                               |
| ...            | passed on to <a href="#">gitlab</a>   |

**Value**

returns a data\_frame with changed branch and path (0 rows if nothing was changed, since overwrite is FALSE)

**Examples**

```
## Not run:
my_project <- gl_project_connection(project = "example-project", ...) ## fill in login parameters
my_project(gl_push_file, "data/test_data.csv",
           content = readLines("test-data.csv"),
           commit_message = "New test data")

## End(Not run)
```

**Description**

Access to repository functions and files in Gitlab API

For `gl_file_exists` dots are passed on to `gl_list_files` and gitlab API call

Get a file from a gitlab repository

**Usage**

```
gl_repository(req = c("tree"), project, ...)
```

```
gl_list_files(...)
```

```
gl_file_exists(project, file_path, ...)
```

```
gl_get_file(project, file_path, ref = "master", to_char = TRUE,
  force_api_v3 = FALSE, ...)
```

**Arguments**

|                           |   |
|---------------------------|---|
| <code>req</code>          | request to perform on repository (everything after <code>/repository/</code> in gitlab API, as vector or part of URL) |
| <code>project</code>      | name or id of project (not repository!)   |
| <code>...</code>          | passed on to <code>gitlab</code> API call   |
| <code>file_path</code>    | path to file  |
| <code>ref</code>          | name of ref (commit branch or tag)  |
| <code>to_char</code>      | flag if output should be converted to char; otherwise it is of class raw  |
| <code>force_api_v3</code> | a switch to force deprecated gitlab API v3 behavior. See details section "API version" of <code>gl_connection</code>  |

**Examples**

```
## Not run:
my_project <- gl_project_connection(project = "example-project", ...) ## fill in login parameters
my_project(gl_list_files)
my_project(gl_get_file, "data.csv")

## End(Not run)
```

---

|                             |   |
|-----------------------------|---|
| <code>gl_to_issue_id</code> | <i>Translate projectwide issue id to global gitlab API issue id</i> |
|-----------------------------|---|

---

**Description**

This functions is only intended to be used with gitlab API v3. With v4, the global iid is no longer functional.

**Usage**

```
gl_to_issue_id(issue_id, project, force_api_v3 = TRUE, ...)
```

**Arguments**

|                           |   |
|---------------------------|---|
| <code>issue_id</code>     | projectwide issue id (as seen by e.g. gitlab website users)   |
| <code>project</code>      | project name or id  |
| <code>force_api_v3</code> | Since this function is no longer necessary for Gitlab API v4, this must be set to TRUE in order to avoid deprecation warning and HTTP error. It currently default to TRUE, but this will change with gitlabr 1.0. |
| <code>...</code>          | passed on to <a href="#">gitlab</a>   |

---

|                  |   |
|------------------|---|
| <code>iff</code> | <i>Apply a function if and only if test is TRUE</i> |
|------------------|---|

---

**Description**

otherwise return input value unchanged

**Usage**

```
iff(obj, test, fun, ...)
```

```
iffn(obj, test, fun, ...)
```

**Arguments**

|                   |                                      |
|-------------------|--------------------------------------|
| <code>obj</code>  | object to apply test and fun to      |
| <code>test</code> | logical or function to apply to test |
| <code>fun</code>  | function to apply                    |
| <code>...</code>  | passed on to test                    |

**Details**

iffn is ... if and only if test is FALSE

---

|           |   |
|-----------|---|
| pipe_into | <i>Pipe into specific formal argument</i> |
|-----------|---|

---

**Description**

This rotates the order of the arguments such that the one named in param\_name comes first and then calls the function.

**Usage**

```
pipe_into(x, param_name, fun, ...)
```

**Arguments**

|            |   |
|------------|---|
| x          | value to be piped into fun                        |
| param_name | name of the argument that x should be assigned to |
| fun        | function  |
| ...        | further arguments for fun                         |

---

|                       |  |
|-----------------------|--|
| set_gitlab_connection | <i>Get/set a gitlab connection for all calls</i> |
|-----------------------|--|

---

**Description**

This sets the default value of gitlab\_con in a call to [gitlab](#)

**Usage**

```
set_gitlab_connection(gitlab_con = NULL, ...)
```

```
unset_gitlab_connection()
```

**Arguments**

|            |  |
|------------|--|
| gitlab_con | A function used for gitlab API calls, such as <a href="#">gitlab</a> or as returned by <a href="#">gl_connection</a> . |
| ...        | if gitlab_con is NULL, a new connection is created used the parameters is ... using <a href="#">gl_connection</a>      |

**Examples**

```
## Not run:
set_gitlab_connection("http://gitlab.example.com", private_token = "123###89")

## End(Not run)
```

---

update\_gitlabr\_code    *Convert gitlabr legacy code to 0.7 compatible*

---

**Description**

CAUTION: This functions output/results should be checked manually before committing the code, since it uses regular expression heuristically to parse code and cannot guarantee complete and correct code replacement

**Usage**

```
update_gitlabr_code(file, text = readLines(file), internal = FALSE)
```

**Arguments**

|          |  |
|----------|--|
| file     | file to read from/write to. Maybe NULL for input and return only |
| text     | lines of code to convert   |
| internal | whether to also replace names of internal functions              |

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