

Gitutils

Gitutils is a tool to facilitate server-side operations when developing software that uses git repositories. It allows users to create forks and merge requests directly from the command line interface.

FORK : Fork existing repositories into your own personal space. Doing a fork is strongly recommended to freely experiment your changes and/or development in a safe working space without affecting the original project.

MERGE : Merge existing repositories from your personal space into the original repository. Merge has the purpose of joining different repositories to incorporate changes into repository.

for the full documentation: gitutils.readthedocs.io/en/latest/

Installation

Use *conda* to install the latest stable version of Gitutils:

```
conda install -c paulscherrerinstitute gitutils
```

Gitutils is compatible with Python 3.5+.

Fork examples

Fork and clone: `gitutils fork <group_name>/<repo_name>`

Fork and not clone: `gitutils fork <group_name>/<repo_name> -n`

Fork, clean and clone: `gitutils fork <group_name>/<repo_name> -c`

Fork, clean and not clone: `gitutils fork <group_name>/<repo_name> -c -n`

Merge examples

merge (default title and description): `gitutils merge`

merge (from project's directory): `gitutils merge -t <title> -d <description>`

merge: `gitutils merge -p <group_name>/<repo_name> -t <title> -d <description>`

if **-p** is not indicated, gitutils fetches project from the `.git/config` file.

Gitutils arguments

-h Shows the help message and exit (help):

-e Allows the user to change the endpoint of the git server. (endpoint): Default: `https://git.psi.ch`

Usage:

```
gitutils -h
gitutils -e https://my-git-server.ch <fork_or_merge>
```

Fork arguments

-n (no clone): Indicates that the forked project will not be cloned after forking. A fork will be created on the server-side and no clone nor upstream will be generated on the local git server.

-c (clean): Indicates to delete any existing fork project under your personal group. This might be necessary to fork and clone into a clean copy of the original repository. The desired forked project must not be a pre-existing forked project under your personal projects.

To see the help message for fork: `gitutils fork -h`

Merge arguments

-p (project): Indicates the project to be forked.

-t (title): The title of the merge request that is going to be created.

-d (description): The description of the merge request that is going to be created.

To see the merge help message: `gitutils merge -h`

