1 gitlabUsage guide

1.1 Create new Project:

- go to website, create new Project, follow instructions, to the mkdirs in your project directory
- Create SSHkey, to project
- add remote add origin
- push -u origin master (the master branch is now the origin branch, all next pushes are going to this branch)

1.2 define sshkeys

- 1. ssh-keygen -t rsa -C " $syour_email$ " tocreateasshkeyinlinuxcat /.ssh/id_rsa.pubshowsthesshkey
- 2. github–¿settings –¿ deploy keys –¿ Add deploy key

if we have different git repositories we can make a config file in the /.ssh/ folder Host krios HostName krios.tbi.univie.ac.at IdentityFile /.ssh/id $_r sa_k rios$ Host github.com HostName github.com IdentityFile /.ssh/id $_r sa_q ithub$

1.3 important commands

1.3.1 git status

show the status, what is already commit, what is new what is modified

1.3.2 git pull

update your local folder

1.3.3 git diff filename1

show the difference between the current file and the file in the repository

1.3.4 git rm

removes a file from the git repository and from the file system, changes are recognized now by commit and push

1.3.5 git clone SSH address project

copies an entire gitlab project to the current folder

1.3.6 git checkout file1

drop every change made with file1, and restore the information in the repository

1.4 change a file and add it to the repository

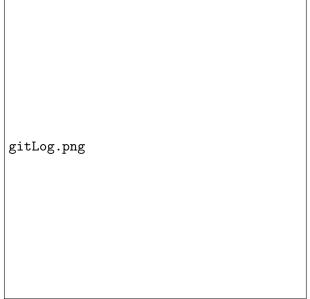
- git pull
- git status
- git diff filename1
- git add filename1
- git commit -m "your comment"
- git status
- git push or git push -u origin branchname1 if the commits should go to another branch

1.5 managing branches

- git branch show all branches, and the current branch
- git checkout branchname1 switch to branch branchname1

- git checkout -b newBranchName create new branch newBranchName
- git push -u origin newBranchName now commits will be pushed to this branch if git push was called
- git branch -d branchName1 delete branch
- git branch -m newname rename current branch to newname
- git rebase branch1
 take the current branch and set it as head to branch1 Caution: merges can occur

1.6 Get back in the git History, not working



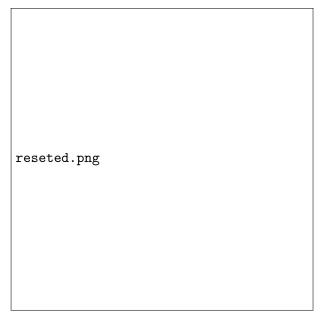
- 1. git log (show all commits)
- 2. git format-patch Hashkey (of commitNode where we want to go back)

3. less patchfile (show the patchfile changes)

patchFile.png

4. git reset --hard hashkey (of commitNode where we want to go back)

4



5. patch -p1 < patchfile (undo saved changes, p1 if hirarchy is a/filename and b/filename, else 2 or 3)