

shared git instructions

Flo

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1 General Note

The git repository <https://github.com/cfuselli/Nikhef-Project-2021> will be used as our shared git repository for the project.

The working mode (so far, up for discussion of course!) is:
Always work in your own branch. Create a pull request to merge with the main branch if the code is ready to be used without **ANY** errors or bugs by everyone!
Any pull request will need to be reviewed but one other person before it can be merged.

If in doubt, ask. Dont press any buttons.

2 Windows

for the windows users among us: if you want to use git from the command line you will need to install git such that windows command knows about it (its pre-installed on unix machines). This link <https://www.computerhope.com/issues/ch001927.htm> explains it (to my reading nicely, but have not checked it for myself)

3 How to git this git (in the terminal)

1. go to your preferred working directory (maybe somethign which is not syncing with some cloud...
2. clone the git repo to your local machine:
`git clone https://github.com/cfuselli/Nikhef-Project-2021`

4 How to work (using branches)

The daily coding life then works as following:

1. move to the folder on your machine `Nikhef-Project-2021`
2. ensure that you are on the main branch
`git status`
3. sync your local stuff with the main repo
`git pull`

4. create your own local branch
`git checkout -b <your_branch_name>`
5. publish your branch to the git project
(if you havent authenticated in your terminal it will ask you for your git username and password. eventually it will send you a reminder that git will switch to 2-factor verification but that another story...)
`git push -u origin <your_branch_name>`
6. do your work
for testing e.g. make a file and write something to it
`touch test.md`
`echo hello > test.md`
7. stage the file change(s)
`git add test.md`
8. write a meaningful commit message including your handle (e.g. handle for Enrico Fermi `-ef`)
`git commit -m "a meaningful commit message -yourhandle"`
9. push it
`git push`
10. open a pull request (easiest in the browser) and mention someone (@githandle eg. @haslbeck or @cfuselli) to review and eventually accept it for merge
11. merge

5 more fun with branches

- switch between branches
`git checkout <branch>`
- delete your local branch
`git branch -d <branchname>`
- delete the remote branch
`git push origin :<branchname>`

And last but not least the website where I stole the commands from:
<https://gist.github.com/cferdinandi/ef665330286fd5d7127d>