

30.10.2024

Version control: Git and GitHub

Exercise 1

GitHub account: <https://github.com/RenneJ>

Exercise 2

Git installed:

```
renne@lenovo-laptop:~$ git --version  
git version 2.34.1
```

Exercise 3

Global config to show name and email:

```
renne@lenovo-laptop:~$ cat .gitconfig  
[init]  
    defaultBranch = main  
[user]  
    email = renne.jamsen@gmail.com  
    name = Renne
```

Exercise 4

```
commit be8dcd690a75c534947cc9d11883fd7d5cb9991c (HEAD -> main)  
Author: Renne <renne.jamsen@gmail.com>  
Date:   Wed Oct 30 17:06:51 2024 +0200  
  
    Add: milk to list  
  
commit 668e96378358f1a61d53ff9f726d774efac706d6  
Author: Renne <renne.jamsen@gmail.com>  
Date:   Wed Oct 30 17:05:15 2024 +0200  
  
    Add: school dir and school file  
  
commit e7c0dcbb9c969c45701b2d12cbe02a0a6194c92a  
Author: Renne <renne.jamsen@gmail.com>  
Date:   Wed Oct 30 17:04:48 2024 +0200  
  
    Add: shopping list  
  
commit caa263eb26008599014ddb526189551478c11e65  
Author: Renne <renne.jamsen@gmail.com>  
Date:   Wed Oct 30 17:04:22 2024 +0200  
  
    Add: story  
  
commit 18849c5f7f2769188e880864cae50868f894e03c  
Author: Renne <renne.jamsen@gmail.com>  
Date:   Wed Oct 30 16:56:22 2024 +0200  
  
    Add new file
```

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Exercise 5

```
git-practice$ git reset be8dcd --hard
HEAD is now at be8dcd6 Add: milk to list
git-practice$ cat shopping_list.txt
bananas
coffee
eggs
chocolate
beans
rice
milk
git-practice$
```

Exercise 6

I use SSH keys to authenticate myself. On my machine: ssh-keygen → copy .pub key → paste public key into github → settings → ssh and gpg keys → new key.

To add to remote I use the ssh url.

Exercise 7 and 8

```
git-practice$ git remote add origin git@github.com:RenneJ/temp-repo.git
git-practice$ git branch -M main
git-practice$ git push -u origin main
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 4 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (16/16), 1.60 KiB | 820.00 KiB/s, done.
Total 16 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To github.com:RenneJ/temp-repo.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
```

Exercise 9

```
git-practice$ git pull
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (4/4), 1018 bytes | 1018.00 KiB/s, done.
From github.com:RenneJ/temp-repo
 be8dcd6..dc3c52e main      -> origin/main
Updating be8dcd6..dc3c52e
Fast-forward
 school/made_in_hub.txt | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 school/made_in_hub.txt
```

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Exercise 10

I can't stash file and still see the change when opening the file.

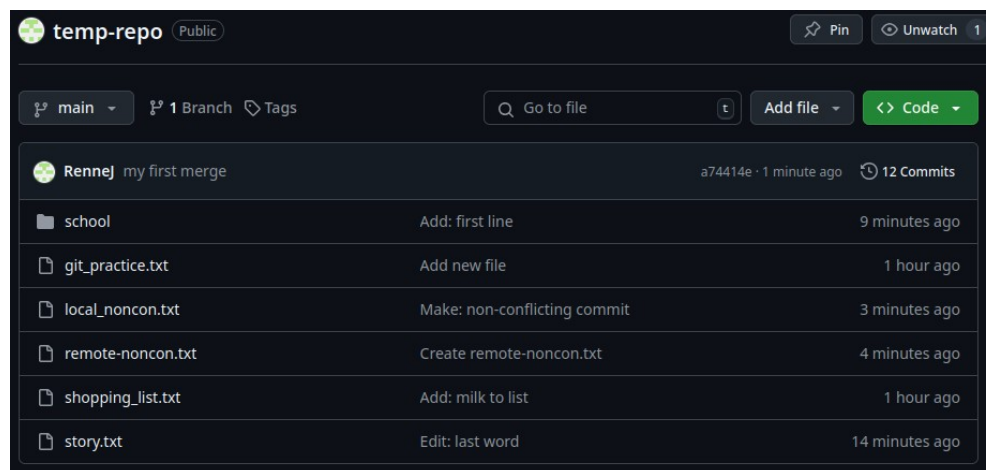
```
git-practice$ micro school/school_file.txt
git-practice$ git add school/school_file.txt
git-practice$ git stash
Saved working directory and index state WIP on main: dc3c52e Make: made_in_hub.t
xt
git-practice$ micro school/school_file.txt
git-practice$ cat school/school_file.txt
```

```
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```

First word edited in GitHub and last word locally. Push to remote ok.

I had to `git stash pop` a second time to get the initial stash out. Added and committed and pushed to remote ok.

Exercise 11



Remote-noncon made in GitHub and `local_noncon` locally. Don't mind the inconsistent use of dash and underscore...

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Exercise 12

```
git-practice$ git add conflict.txt
git-practice$ git status
On branch main
Your branch and 'origin/main' have diverged,
and have 2 and 1 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)


All conflicts fixed but you are still merging.
(use "git commit" to conclude merge)

Changes to be committed:
  new file:   conflict.txt


git-practice$ git commit
[main b87b34c] Merge branch 'main' of github.com:RenneJ/temp-repo
git-practice$ git pull
Already up to date.
git-practice$ cat conflict.txt
THIS COMMIT IS BETTER AND SHALL PREVAIL!
```


Exercise 13

Commit ad8ef67

 RenneJ committed 1 minute ago

Delete: removed secret

 main

 secret.txt

1 file changed +0 -1 lines changed

secret.txt

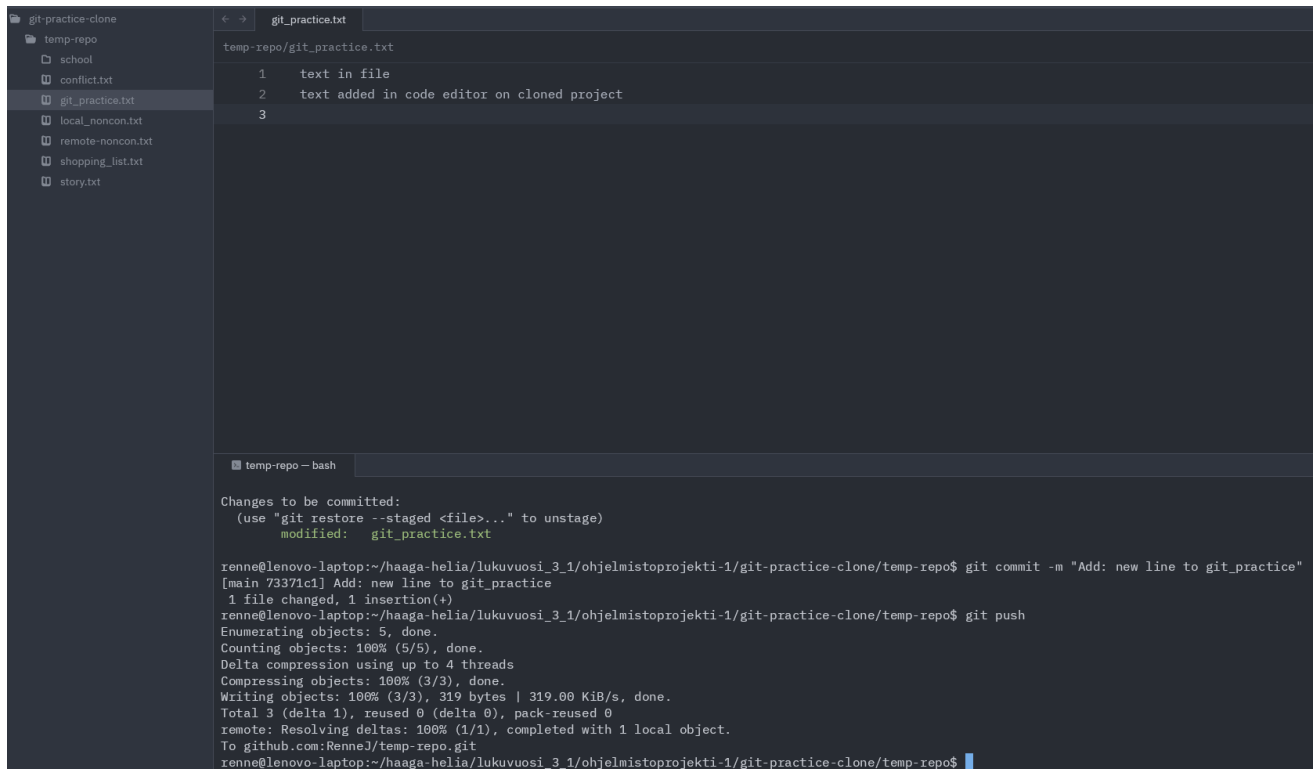
...

00 -1 +0,0 00

1 - this secret is unsafe

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Exercise 14



```
git-practice-clone
├── temp-repo
│   ├── school
│   ├── conflict.txt
│   ├── git_practice.txt
│   ├── local_noncon.txt
│   ├── remote_noncon.txt
│   ├── shopping_list.txt
│   └── story.txt
└── git_practice.txt

temp-repo/git_practice.txt
1  text in file
2  text added in code editor on cloned project
3

temp-repo - bash

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   git_practice.txt

renne@lenovo-laptop:~/haaga-helia/luukuusi_3_1/ohjelmistoprojekti-1/git-practice-clone/temp-repo$ git commit -m "Add: new line to git_practice"
[main 73371c1] Add: new line to git_practice
1 file changed, 1 insertion(+)
renne@lenovo-laptop:~/haaga-helia/luukuusi_3_1/ohjelmistoprojekti-1/git-practice-clone/temp-repo$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 319 bytes | 319.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:RenneJ/temp-repo.git
renne@lenovo-laptop:~/haaga-helia/luukuusi_3_1/ohjelmistoprojekti-1/git-practice-clone/temp-repo$
```

Exercise 15

Niko (?) status unknown. Hasn't showed up in class.

Kasper, github alias bgz848.

Veera, github alias Beanie-bean.

Renne, github alias RenneJ

Team name: FrontBackStart (it is also the organization name in github).

Strengths: interest between front-end and back-end is divided nicely.
Everyone gets to work on their preferred side (server/client). Motivation to complete the project is high. High standards all around.

Weaknesses: high standards and the pursuit of "perfect" makes it hard to sometimes compromise on "good enough". Perfectionism also often has (which team members voiced as well) the downside of slower pace and getting stuck on unnecessary aspects of the project considering the completion and pre-determined goals.

Communication platform: Discord

Exercises 16 and 17

These were done in class. Organization created and project initialised.

<https://github.com/FrontBackStart/quizzer>