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2025-05-28

Git: how it works?



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- Why should we use git?
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History of GIT



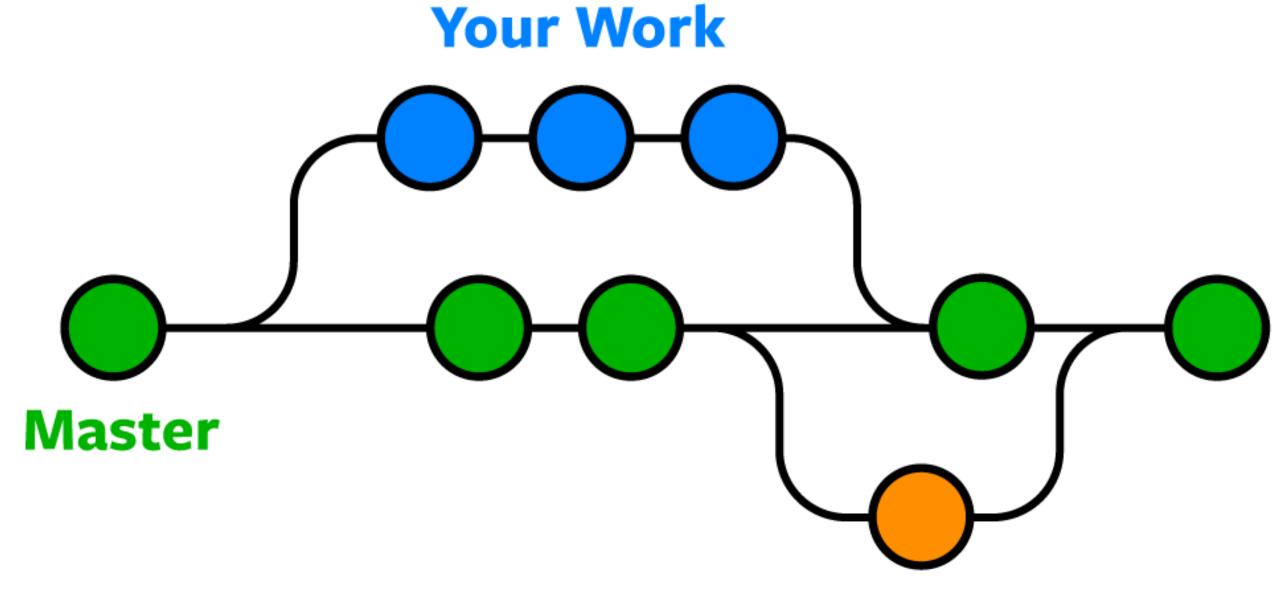
Git - is software for tracking changes in any set of files, usually used for coordinating work among programmers collaboratively developing source code during software development. Its goals include speed, data integrity, and support for distributed, non-linear workflows (thousands of parallel branches running on different systems)

Git was originally authored by Linus Torvalds in 2005 for development of the Linux kernel, with other kernel developers contributing to its initial development



Why should we use git?

- Locally Repositiories
- Remote Repositories (BitBucket, Github, Gitea)
- Branches & Merging
- Collaboration
- Pull Requests



Someone Else's Work

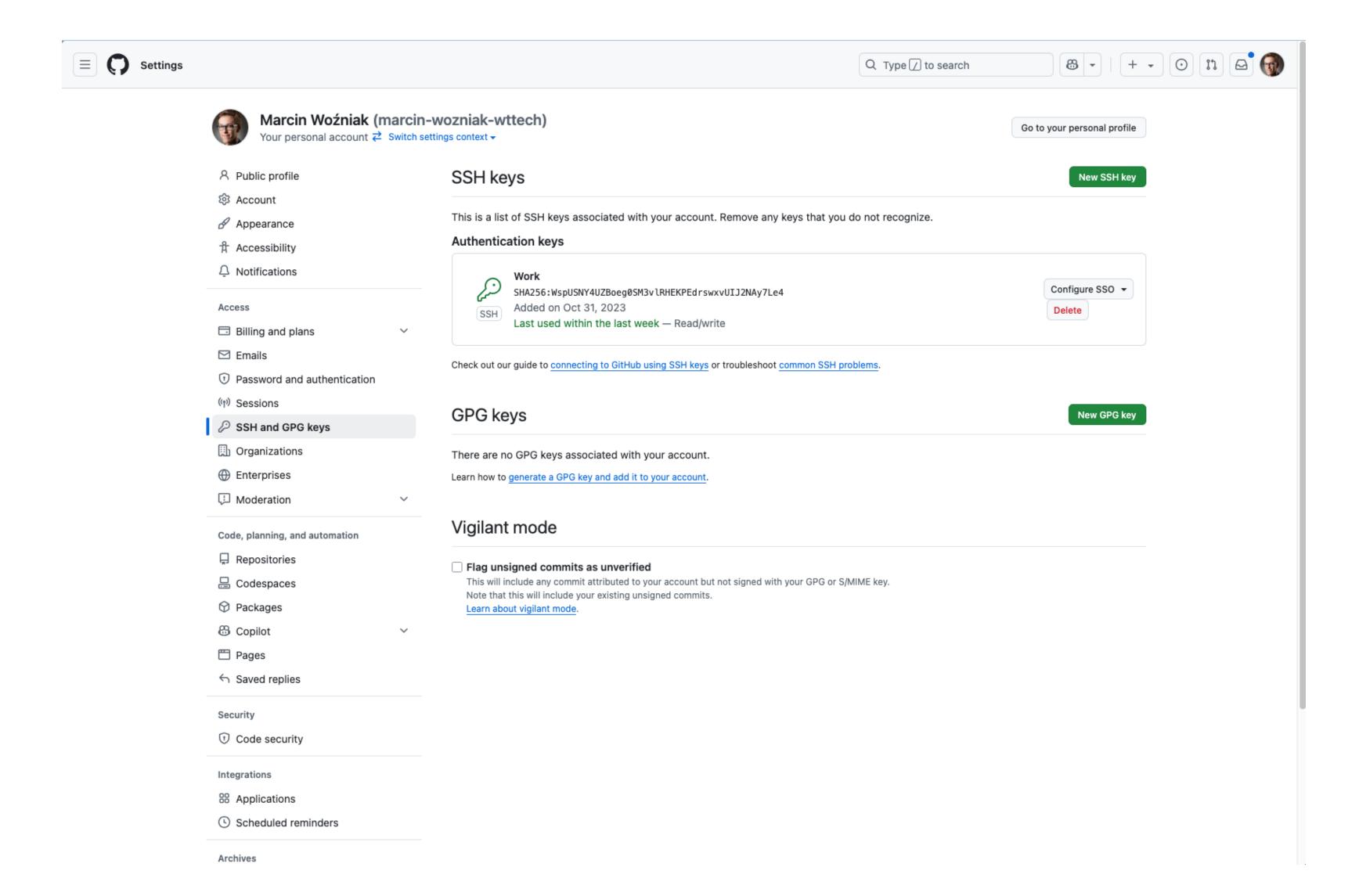


Git – configuration

```
$ git config --global user.name "Marcin Wozniak"
$ git config --global user.email marcin.wozniak@vml.com
```



Git – configuration - ssh





Markdown style

https://www.markdownguide.org/basic-syntax/

WTT INFRASTRUCTURE MERAKI

Download the requirements

```
ansible-galaxy install --force -r roles/requirements.yml
```

How to use it?

```
ansible-playbook -e "MERAKI_API_KEY=XXXXXXXXXXXXXX" playbooks/ <SWITCH-NAME >.yml
```

Example configuration

• Begining configuration of switch:

```
- name: Configure SW_A1_30
hosts: localhost
connection: local
gather_facts: no
collections:
    - cisco.meraki
    - cisco.meraki.meraki_ms_stack
    - cisco.meraki.meraki_organization
vars_files:
    - ../vars/vars.yml
```

```
## Download the requirements
ansible-galaxy install --force -r roles/requirements.yml
## How to use it?
```bash
ansible-playbook -e "MERAKI_API_KEY=XXXXXXXXXXXXXX" playbooks/ <SWITCH-NAME >.yml
Example configuration
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  vars_files:
    - ../vars/vars.yml
```

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Git - commands

- git init
- git clone

```
$ git clone git@github.com:y0rune/knowledge-sharing.git
$ git clone https://github.com/y0rune/knowledge-sharing.git
```

- git add [file]
- git add –p
- git commit / git commit -m [Message]
- git diff
- git status / git status —s
- git branch (e.g COGITOPS-8241)

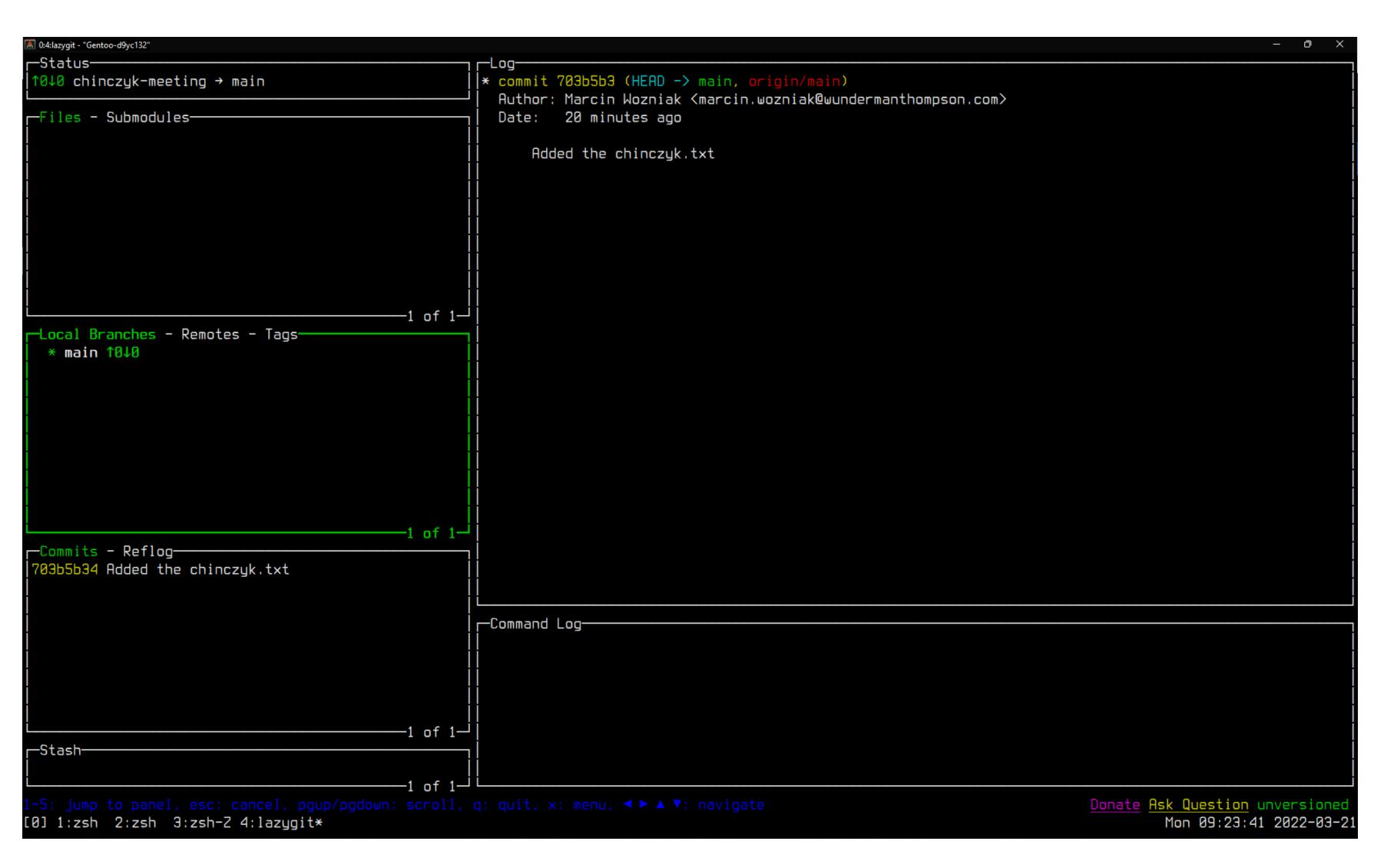


Git - commands

- git checkout
- git reset [file]
- git log
- git remote add [alias] [url]
- git fetch [alias]
- git merge
- git rebase
- git push
- git rm [file]
- git submodule

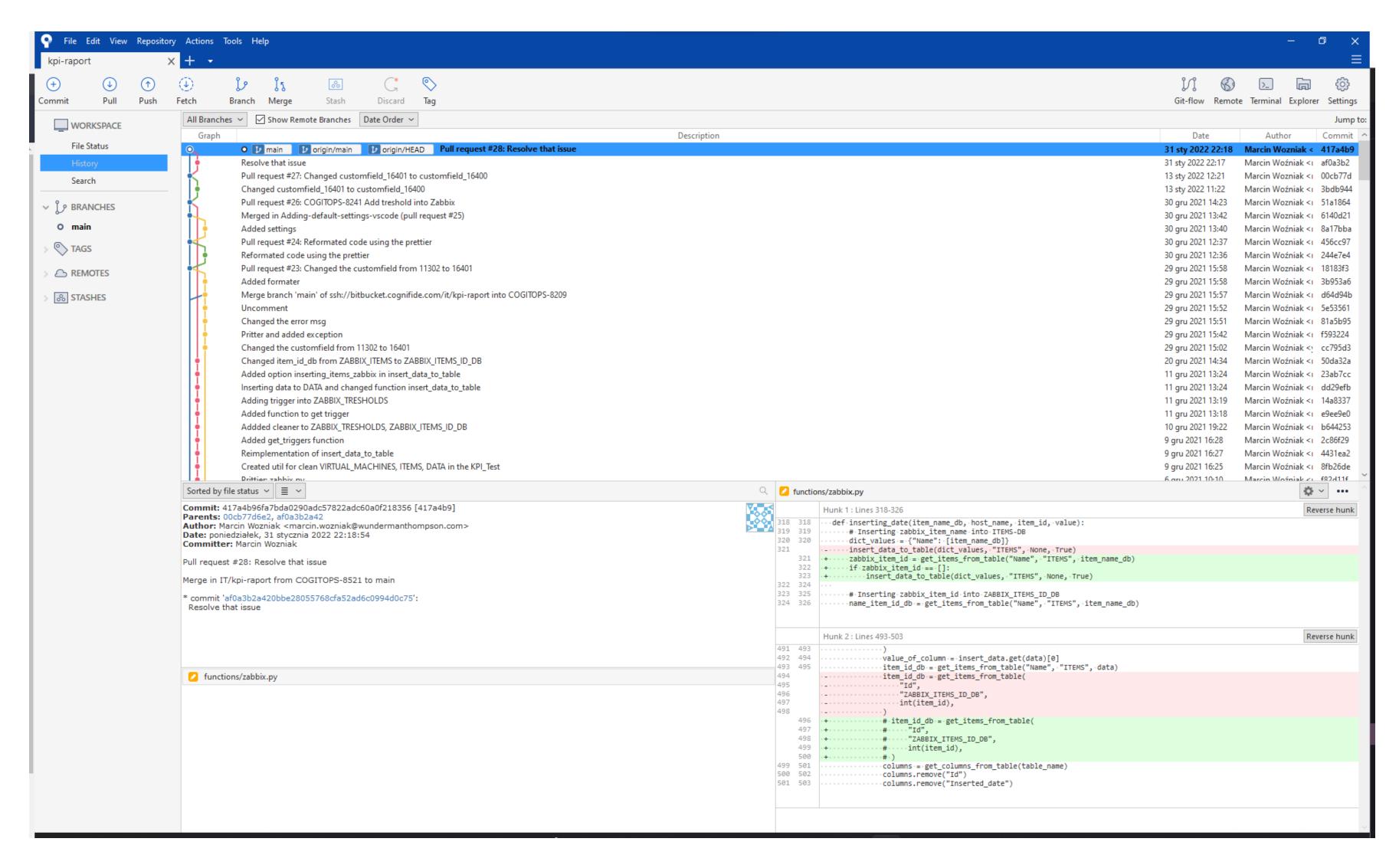


Git Tools - Lazy Git





Git Tools – Source Tree





Workshops

- 1. You can open a cheat sheet
 - https://education.github.com/git-cheat-sheet-education.pdf
 - https://githubtraining.github.io/training-manual/book.pdf
- 2. Clone the testing repo when you can find in the out BitBucket https://github.com/y0rune/knowledge-sharing.git
- 3. Please create a file with 'name' and commit and push into a repo
- 4. Please create a branch with 'test-branch-name'
- 5. Create another file with `name-<RANDOM-NUMBER-FROM-1-3>`
- 6. Commit and push into your branch
- 7. Create the PR (Pull Request) and add Chinczyk (or/and random person from call) into Reviewers
- 8. Resolve conflicts





