UNIVERSITATEA DIN BUCUREȘTI

Metode de dezvoltare software

Git & GitHub
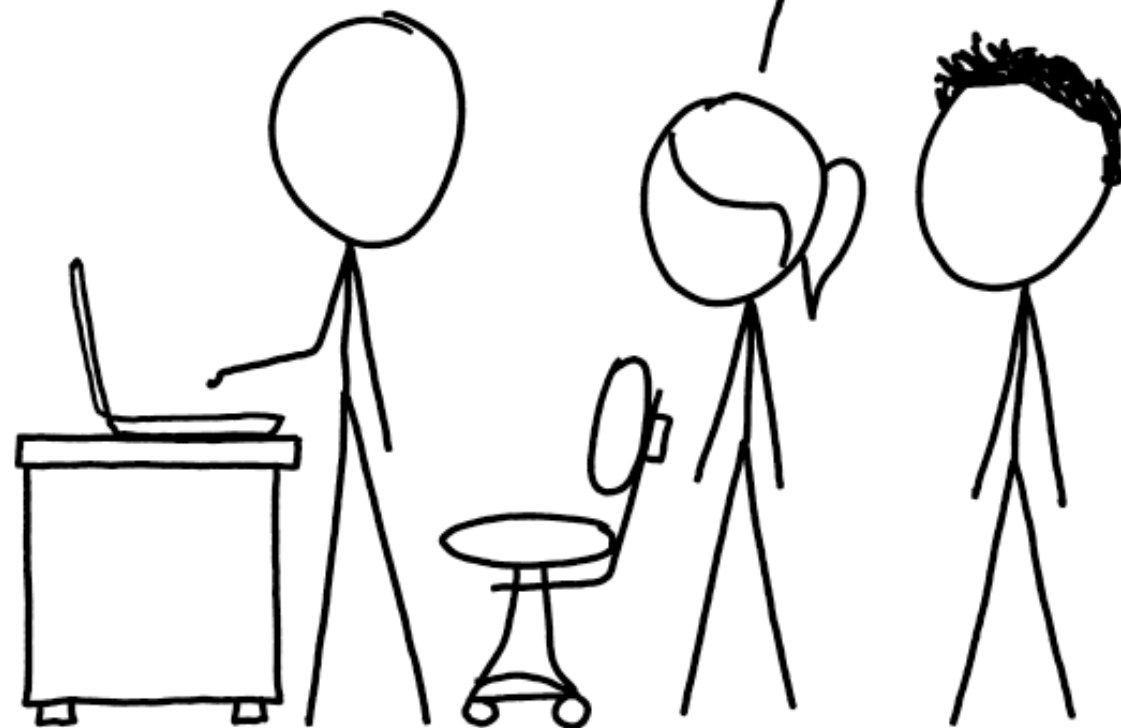
19.03.2024

Git … in practica
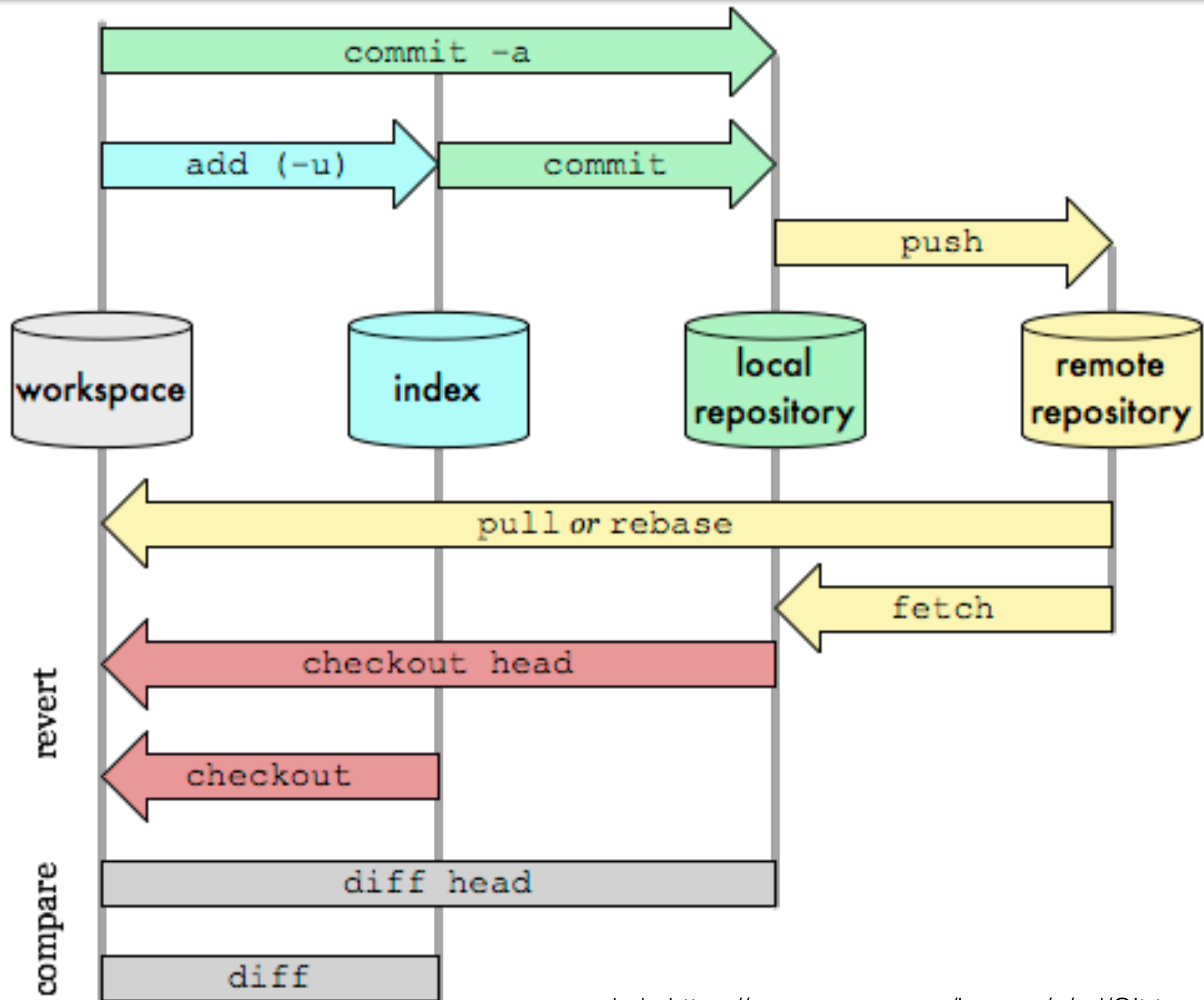
Comenzi principale

de la https://en.opensuse.org/images/e/ed/Git-transport.png

Comenzi principale

de la https://en.wikipedia.org/wiki/Git#/media/File:Git_operations.svg
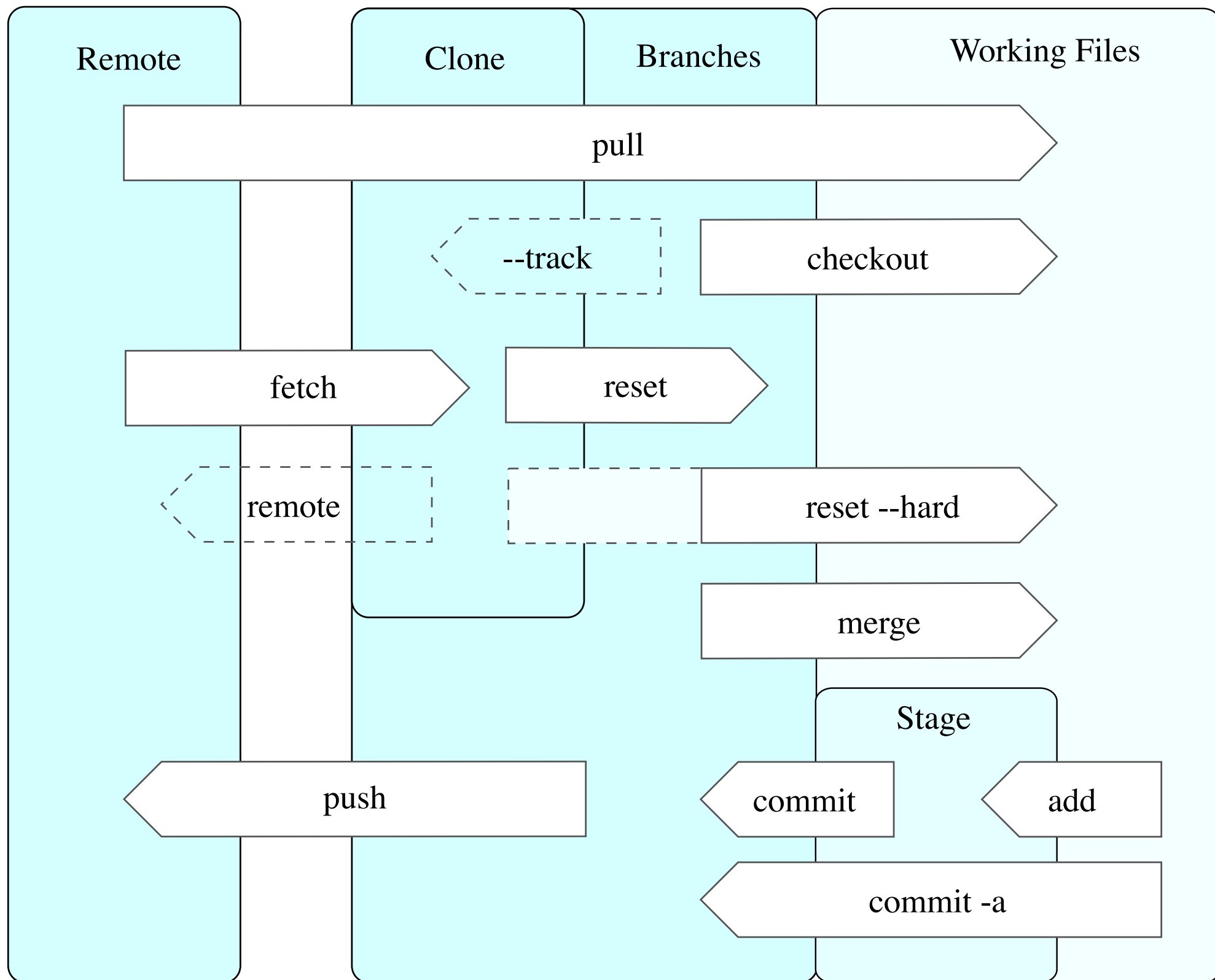
Commit

- Commit = modificări efectuate asupra unor fișiere, publicate în local repository

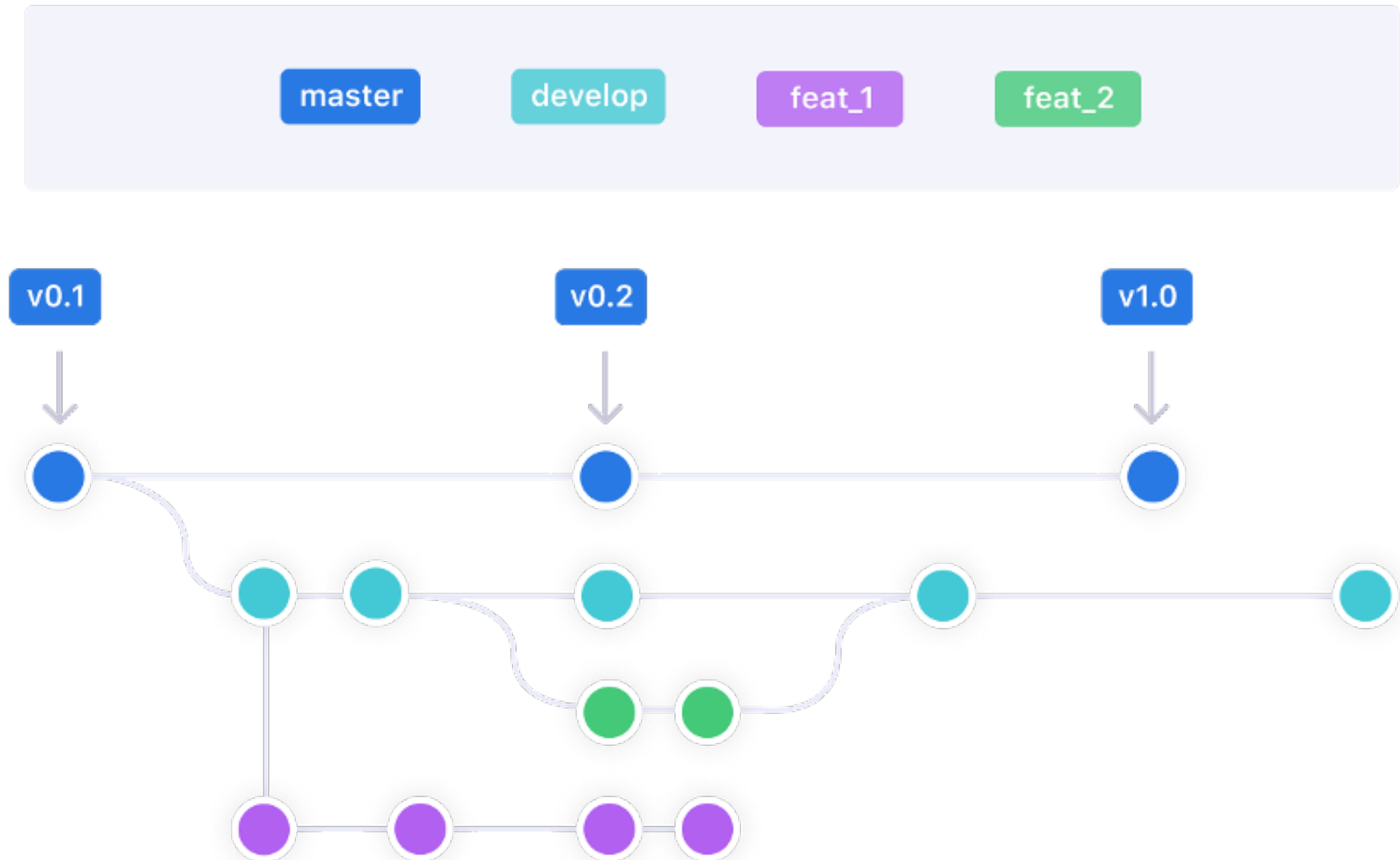- Commit-ul este atomic, reversibil și pe lângă modificările propriu-zise conține și informații despre autor, timestamp și comentarii.

-

```
4 ■■■■■ nodes/ba780c3a.39e07/func

...    ...    @@ -1,4 +1,4 @@
 1            -if (true) {
 2            -    console.log('Hello world.')
        1    +if (false) {
        2    +    console.log('Goodbye world.')
 3      3    }
 4      4    return msg; ⊘↵
```

Branch

- Branch = linie de dezvoltare a proiectului, ce conține o istorie proprie
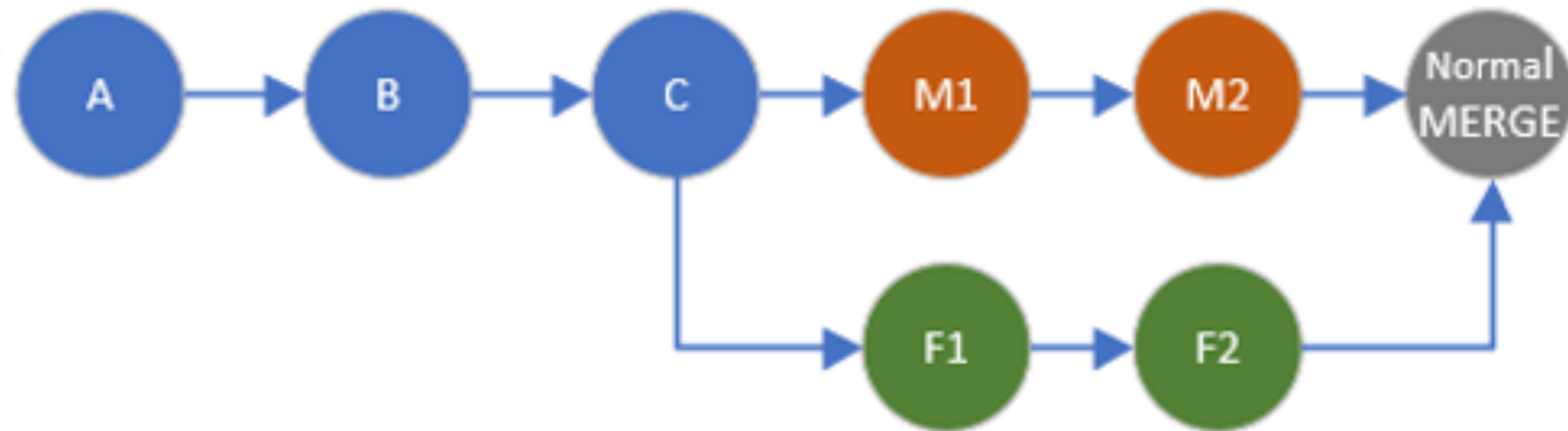
Strategii de branching

- Trunk-based development

- Feature-based development (and GitFlow)

Strategii de merging

master branch after **Normal MERGE**

A → B → C → M1 → M2 → Normal MERGE

C → F1 → F2 → Normal MERGE

master branch after **Rebase and merge**

A → B → C → M1 → M2 → F1 → F2

master branch after **Squash and merge**

A → B → C → M1 → M2 → SQUASH MERGE

Alte resurse despre Git si GitHub

- https://git-scm.com/book/en/v2

- https://docs.github.com & https://github.com/git-guides

- https://skills.github.com/

- https://docs.gitlab.com/ee/tutorials/make_your_first_git_commit.html

- https://www.atlassian.com/git

- https://about.gitlab.com/images/press/git-cheat-sheet.pdf

- https://www.atlassian.com/git/tutorials/atlassian-git-cheatsheet

- https://ndpsoftware.com/git-cheatsheet.html