



UNIVERSITATEA
DIN BUCUREȘTI

Metode de dezvoltare software

Git & GitHub

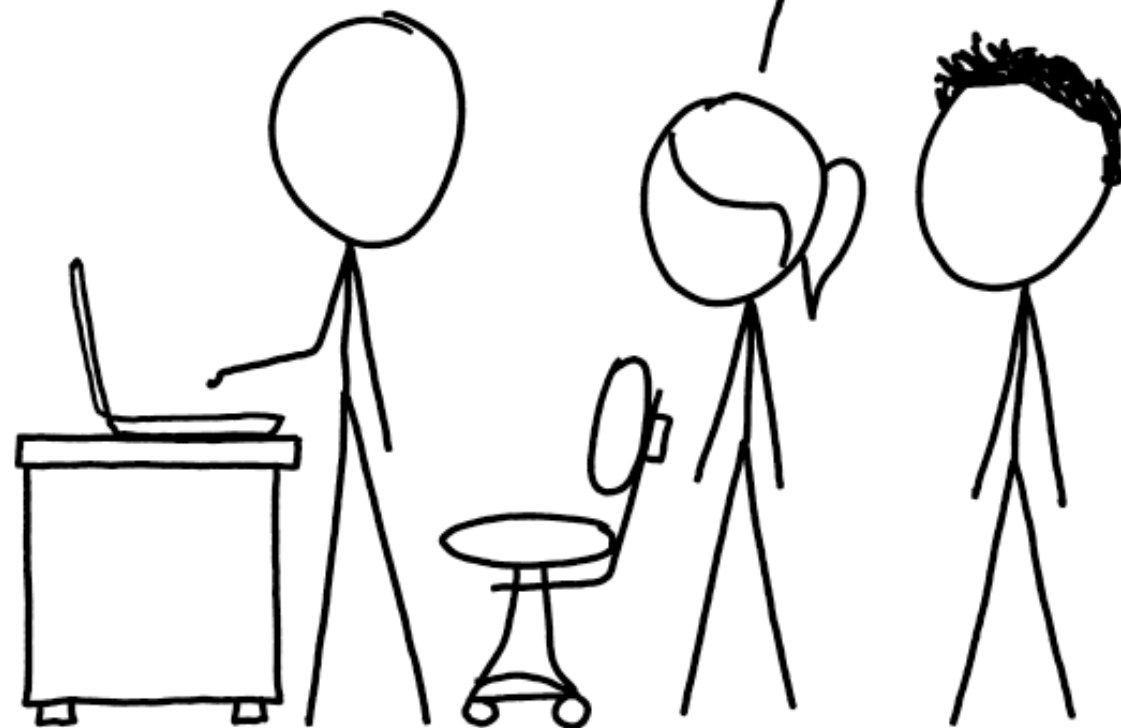
27.05.2025

Git ... in practica

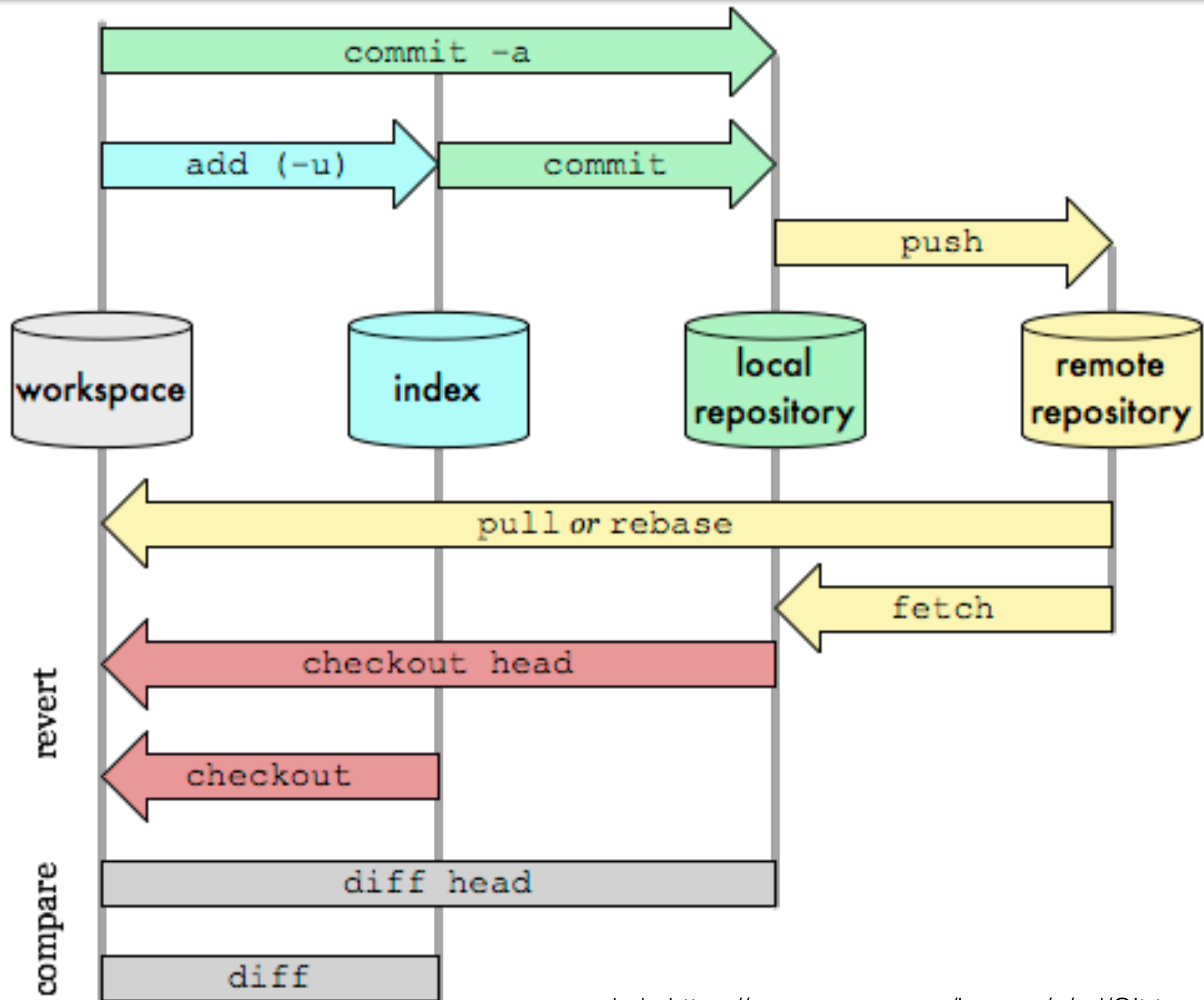
THIS IS GIT. IT TRACKS COLLABORATIVE WORK ON PROJECTS THROUGH A BEAUTIFUL DISTRIBUTED GRAPH THEORY TREE MODEL.

COOL. HOW DO WE USE IT?

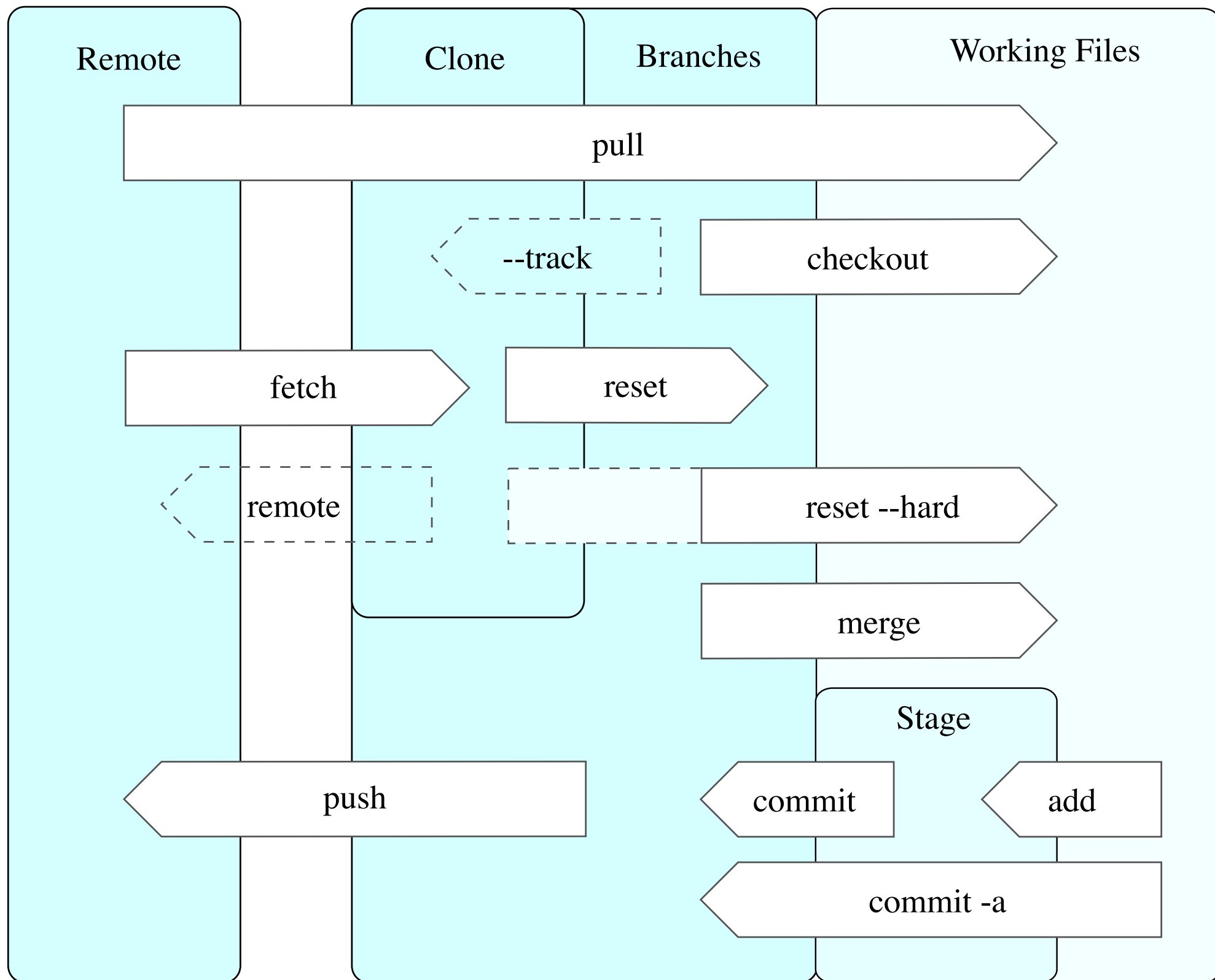
NO IDEA. JUST MEMORIZE THESE SHELL COMMANDS AND TYPE THEM TO SYNC UP. IF YOU GET ERRORS, SAVE YOUR WORK ELSEWHERE, DELETE THE PROJECT, AND DOWNLOAD A FRESH COPY.



Comenzi principale



Comenzi principali



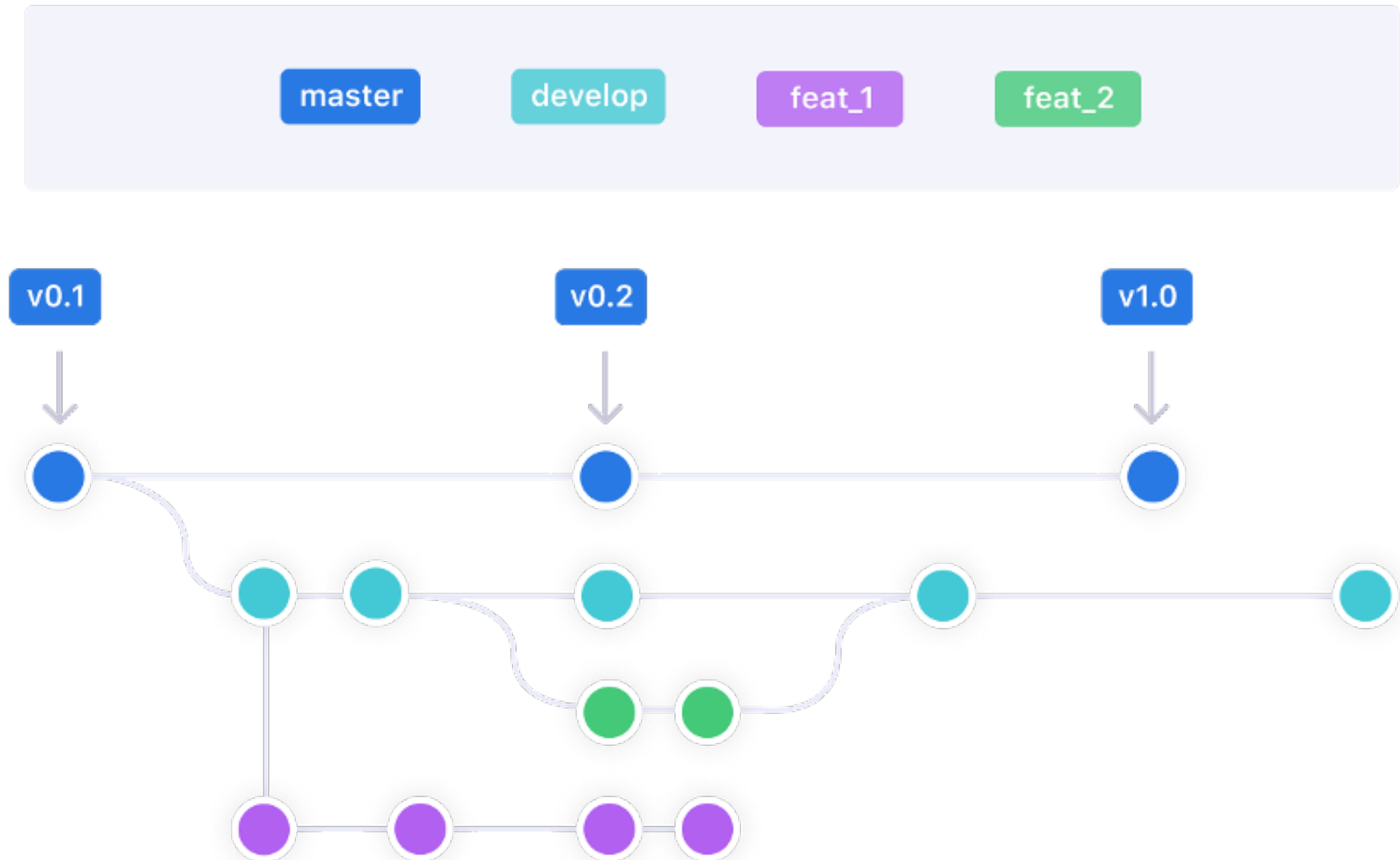
Commit

- 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

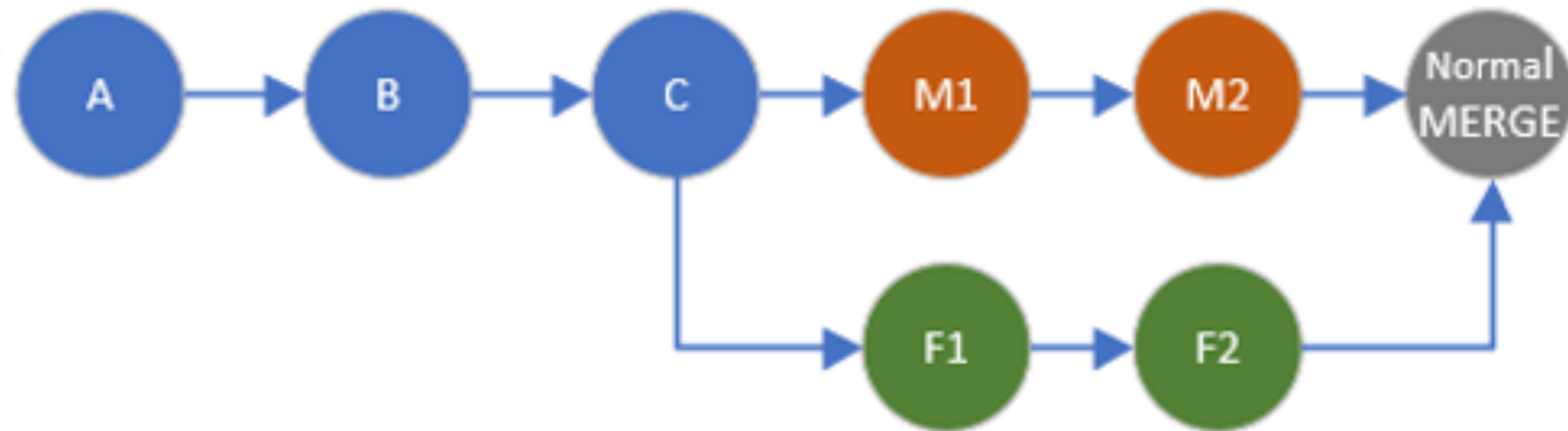


Strategii de branching

- Trunk-based development
- Feature-based development (and GitFlow)

Strategii de merging

**master branch after
Normal MERGE**



**master branch after
Rebase and merge**



**master branch after
Squash and 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/tutorials/make_first_git_commit
- <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>