



Git & Github why do we need them?

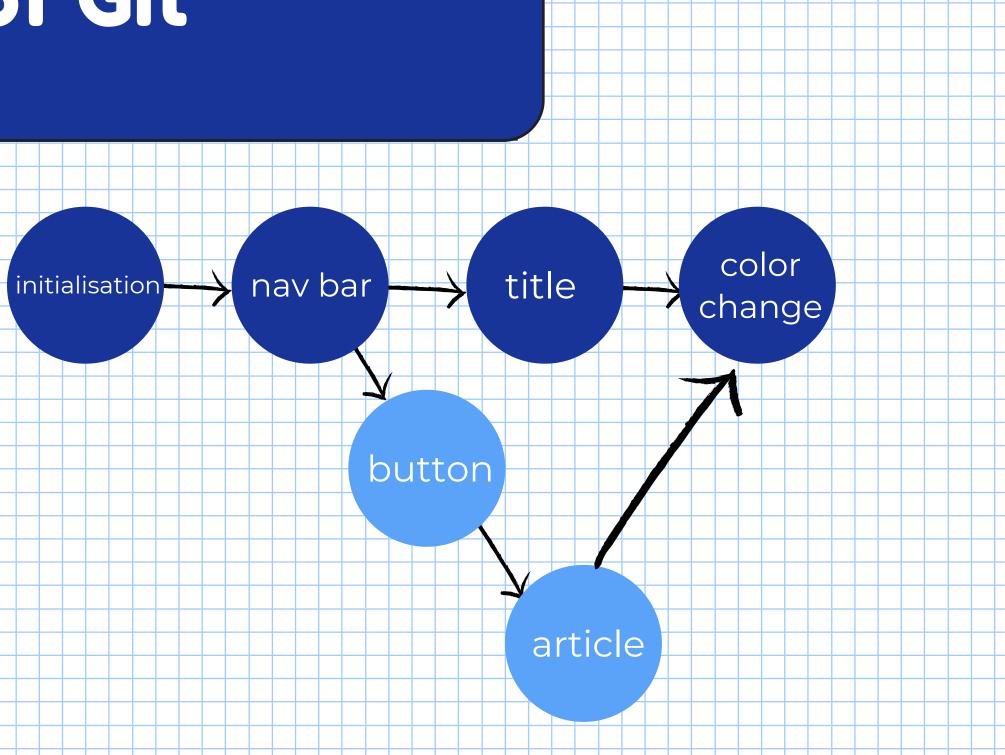
- Git & Github are not the same thing
 - Git version control system
 - Github cloud based service
- Git tracking and manages different versions of files/ repositories over time
- Github stores git repositories in cloud (you can share your code with anyone!)
 - hosts websites for free

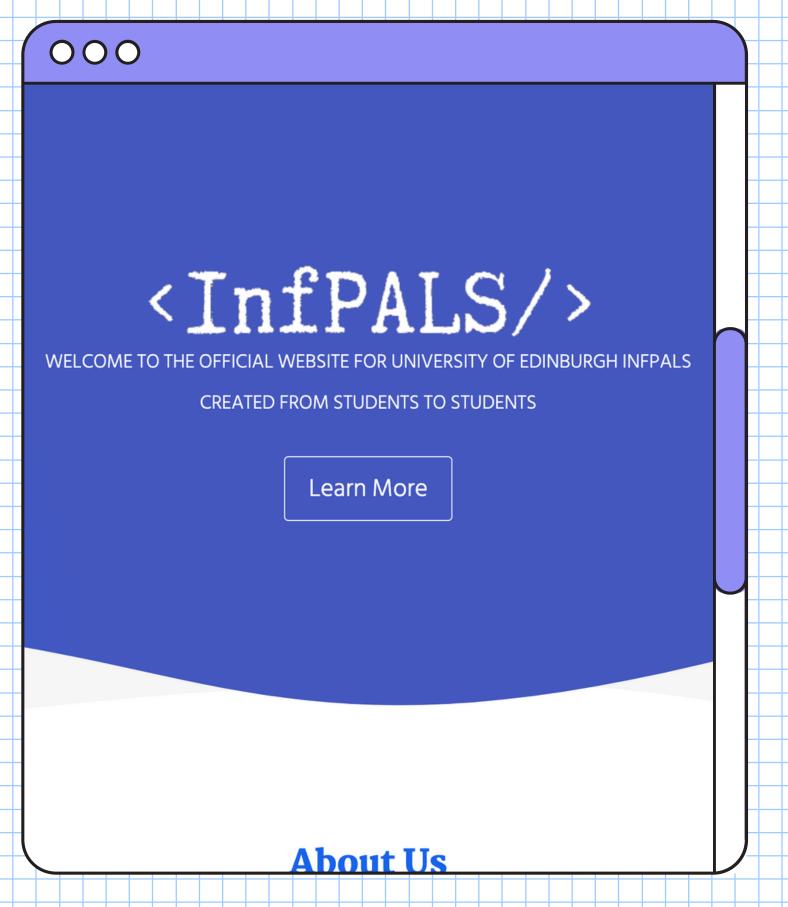




infpals.github.io
*go there and try to imagine how was it done

Visualisation of Git





General workflow

WARNING:

Do Not initialise git in folders which is already being tracked by git.

WARNING:

Do not initialise git at the root folders of your computer



If your git is not initialized

- 1. Open Terminal
- 2. Navigate to folder where you want to track your work
- 3. git status (Checking if there is not already a git initialised)
- 4. Initialise git at your folder with git init OPTIONAL: git status

What Commands are we going to learn?



000

git status
git init
git add
git commit

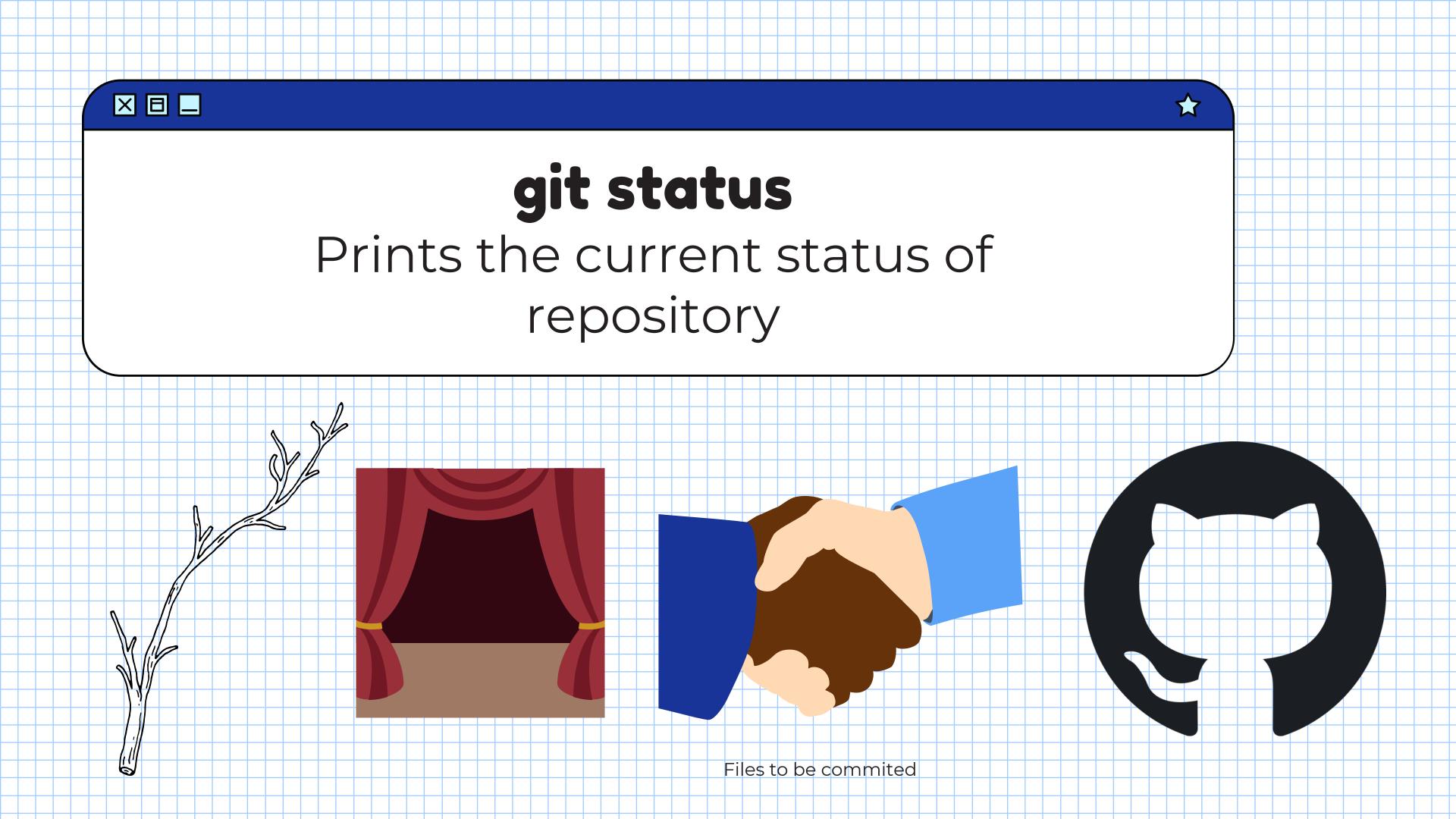
git log git diff git clone git push

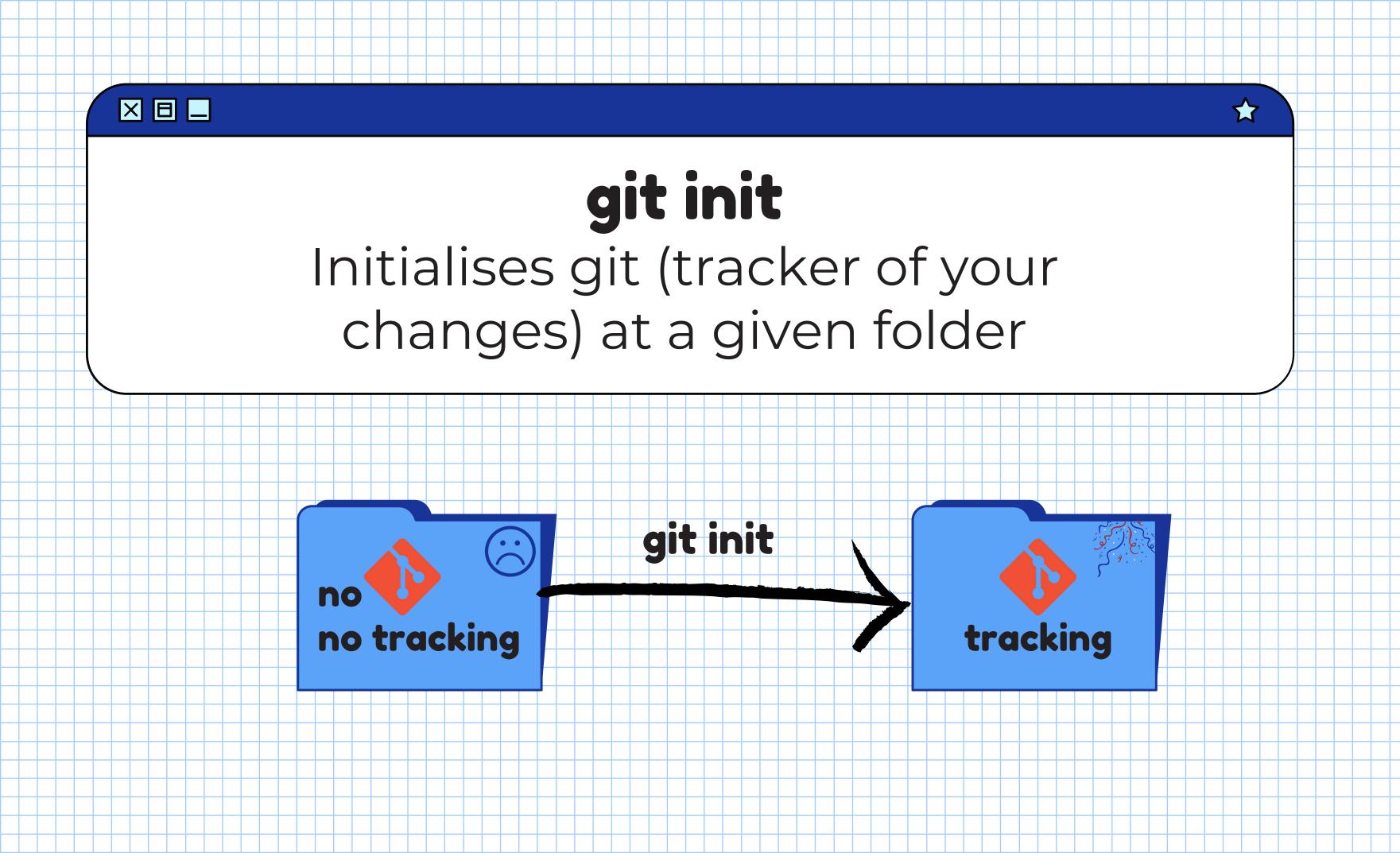
000

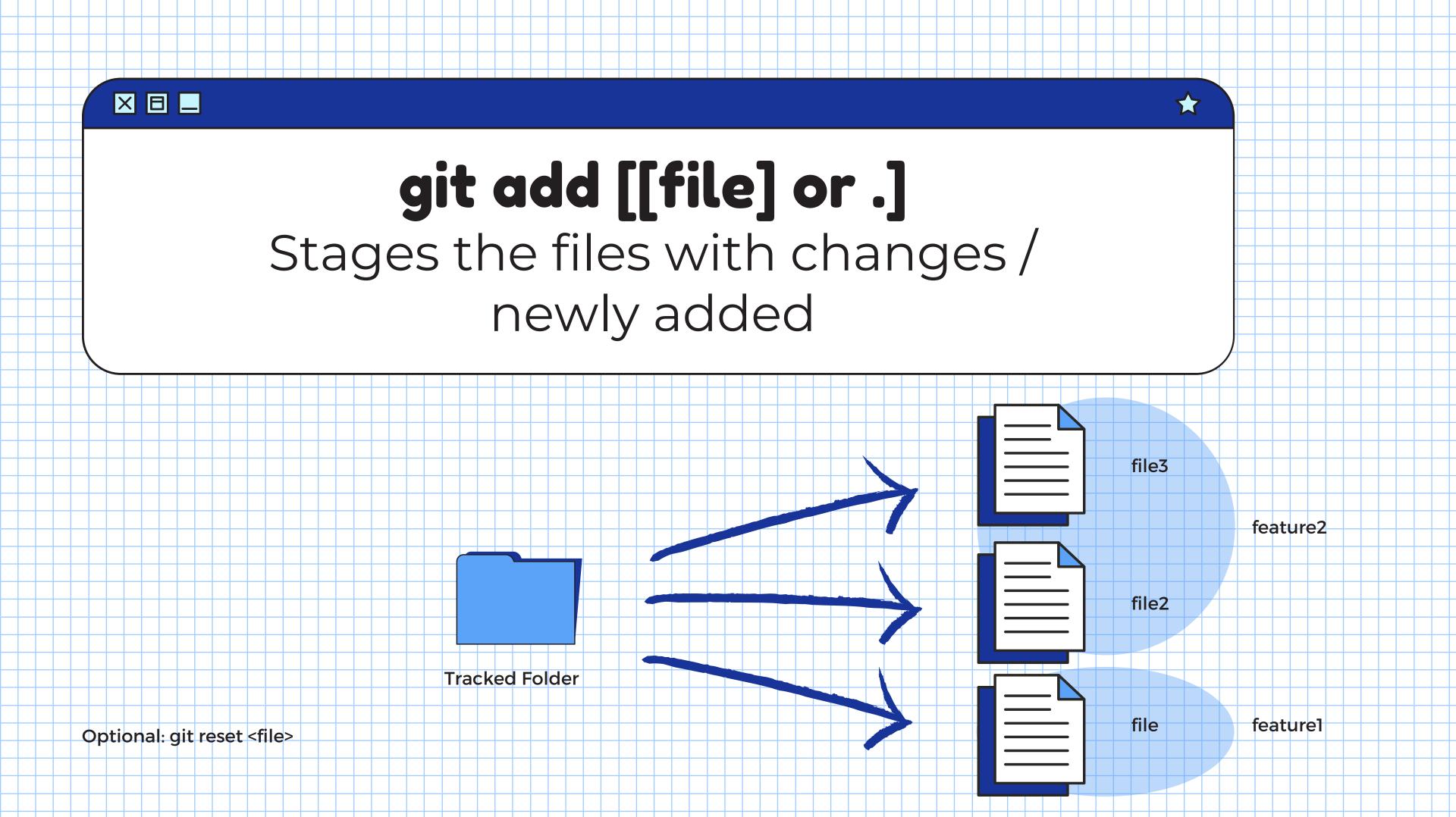


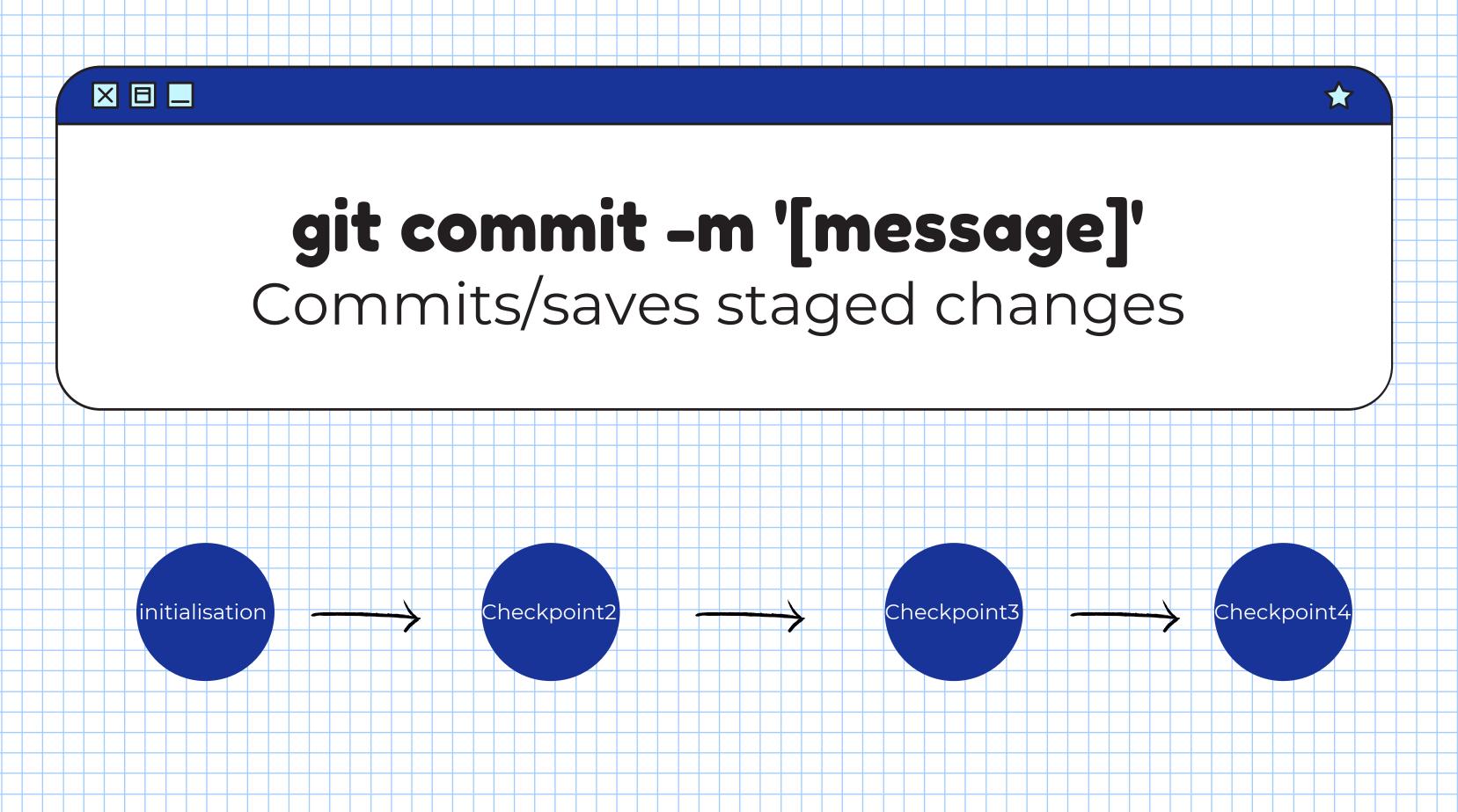
Let's open the terminal!

Check your version of git
git --version
Link to download Git:
https://git-scm.com/book/en/v2/GettingStarted-Installing-Git







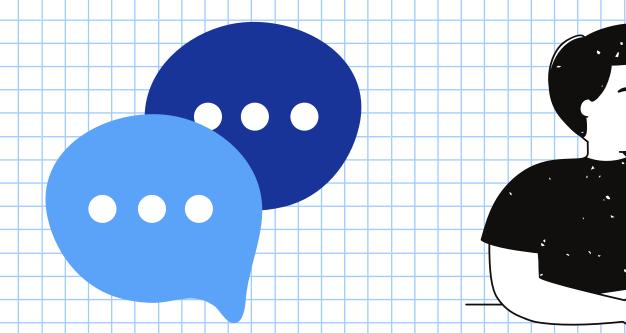


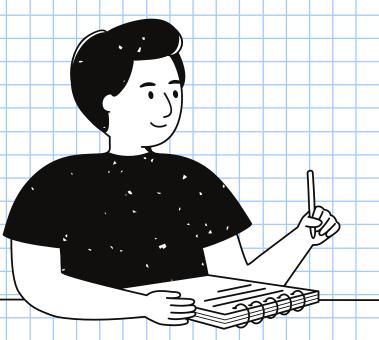
Note: If you do not use -m (do not add message) you will be directed to Vim. Here is a link to article which explains how to get out of it: https://www.cyberciti.biz/faq/linux-unix-exit-vim-editor/



git log

Prints ordered commits with given message / author / date / hash







hash
(don't know how to visualise)

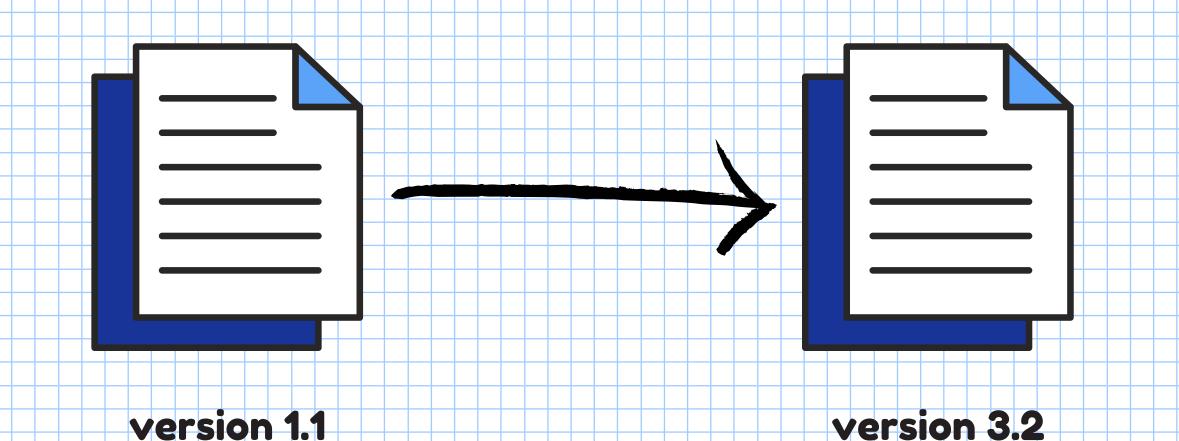
Optional: git log --oneline

Note: Short hash can be used for git diff



git diff [HEAD or commit1..commit2 or branch1..branch or nothing]

Prints differences between commits, branches, files ...

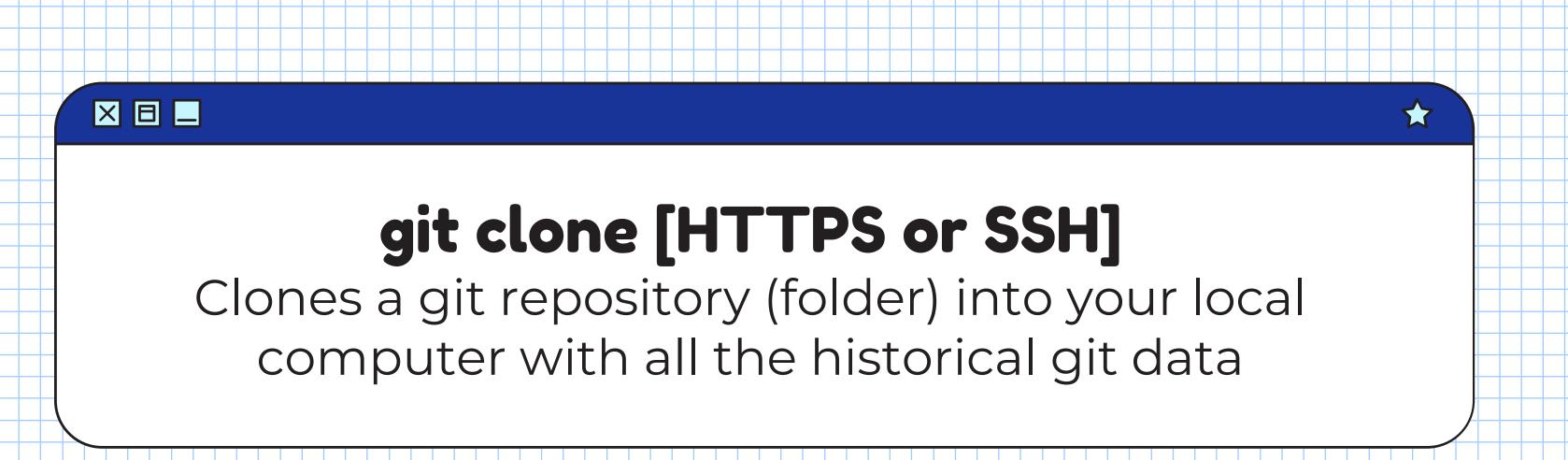


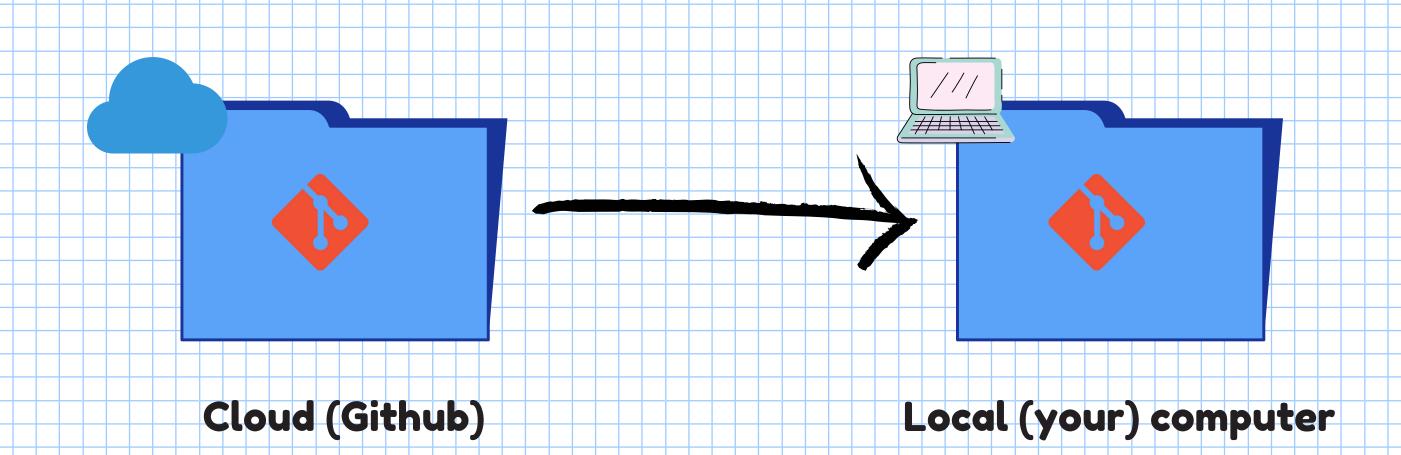


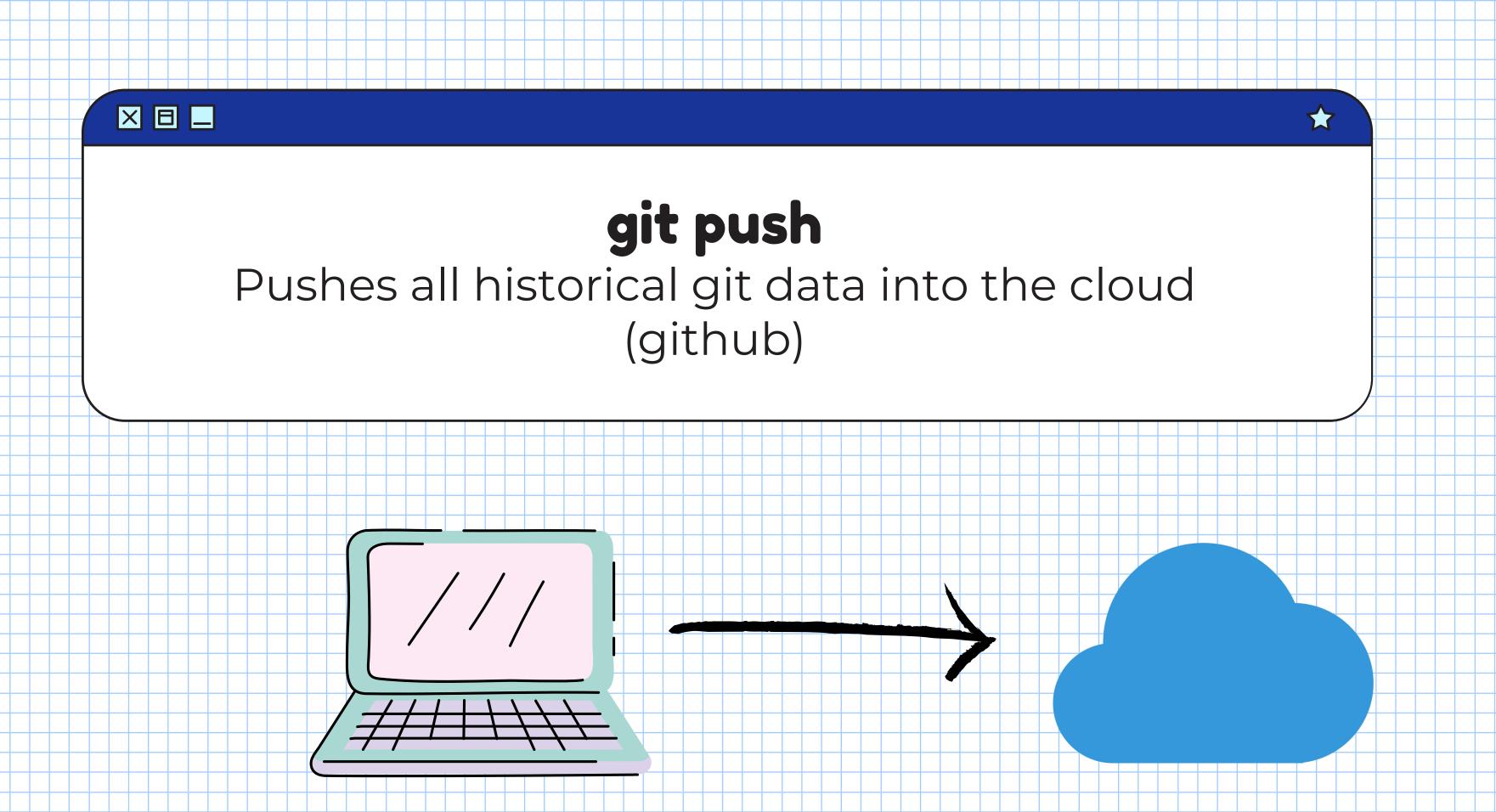


Let's open github!

https://github.com/
If you do not have account, now its the time
to set it up:)

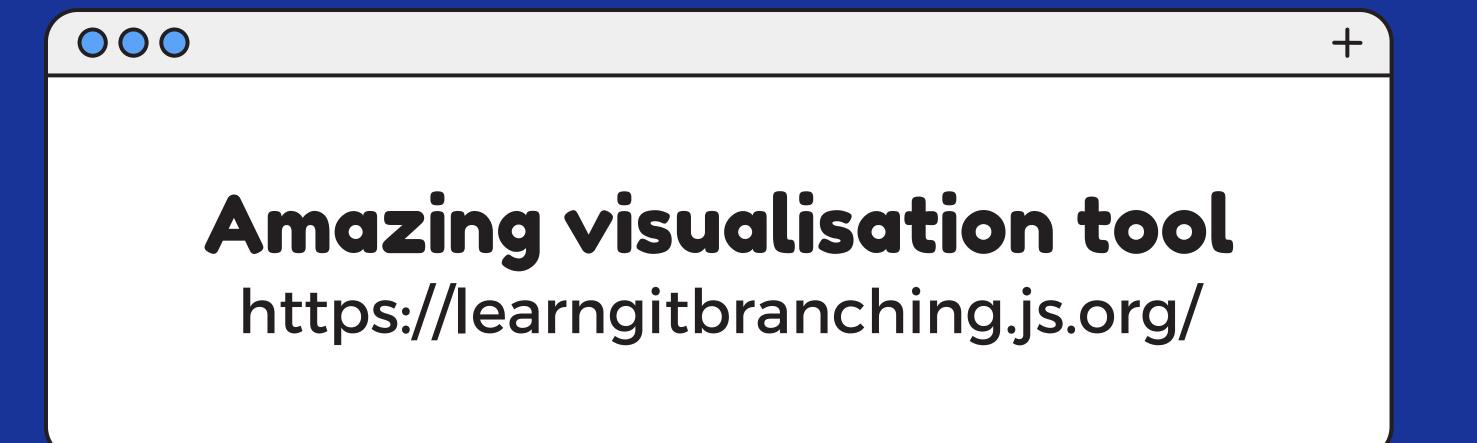


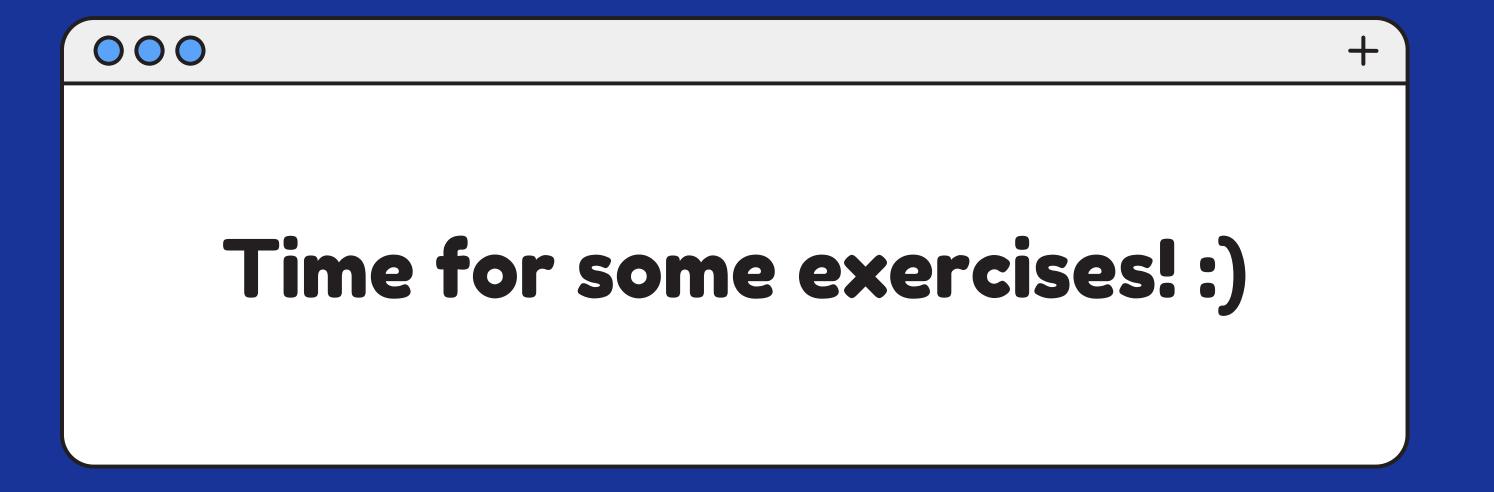




Local (your) computer

Cloud (Github)





Try to do things listed in the window!

If you have any problems don't hesitate to raise your hand and the Leader will come and help you.:)



1.	Open Terminal and navigate yourself to your Desktop
2.	Create Folder PracticeGit
3.	Check the Status of Git in PracticeGit
4.	Initialise Git in PracticeGit
5.	Create a file Me.txt and do initial commit with message 'initial commit'
6.	Write 'Hello! :) My name is [your name].' into the Me.txt and do another commit with message 'add my name'
7 .	Write 'I study [name of your degree]' into the Me.txt, create
	Colors.txt and do another commit with message 'add my degree' where you only commit changes in Me.txt
8.	Do commit for Colors.txt with message 'add Colors.txt file'
9.	Print all commits/author/dates/hashes
10.	Print difference between initial commit and last commit
11.	Create private repository on Gihub Hello-World
12.	Establish connections between PraticeGit and Hello-World
13.	Write your 3 favourite colors and commit changes with message
	'add my 3 favourite colors' and push changes into Github repository
14.	Clone Materials from: https://github.com/infpals/ip2022-git-and-
	github-basic into your local computer (somewhere where you do
	not have already initialised git)
15.	Print commits done in ip2022-git-and-github-basic