Git & GitHub

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Recap

- Local and Remote Repository
- Practice committing and pushing
- Add → Commit → Push workflow
- More: Edit commit message, checkout commit

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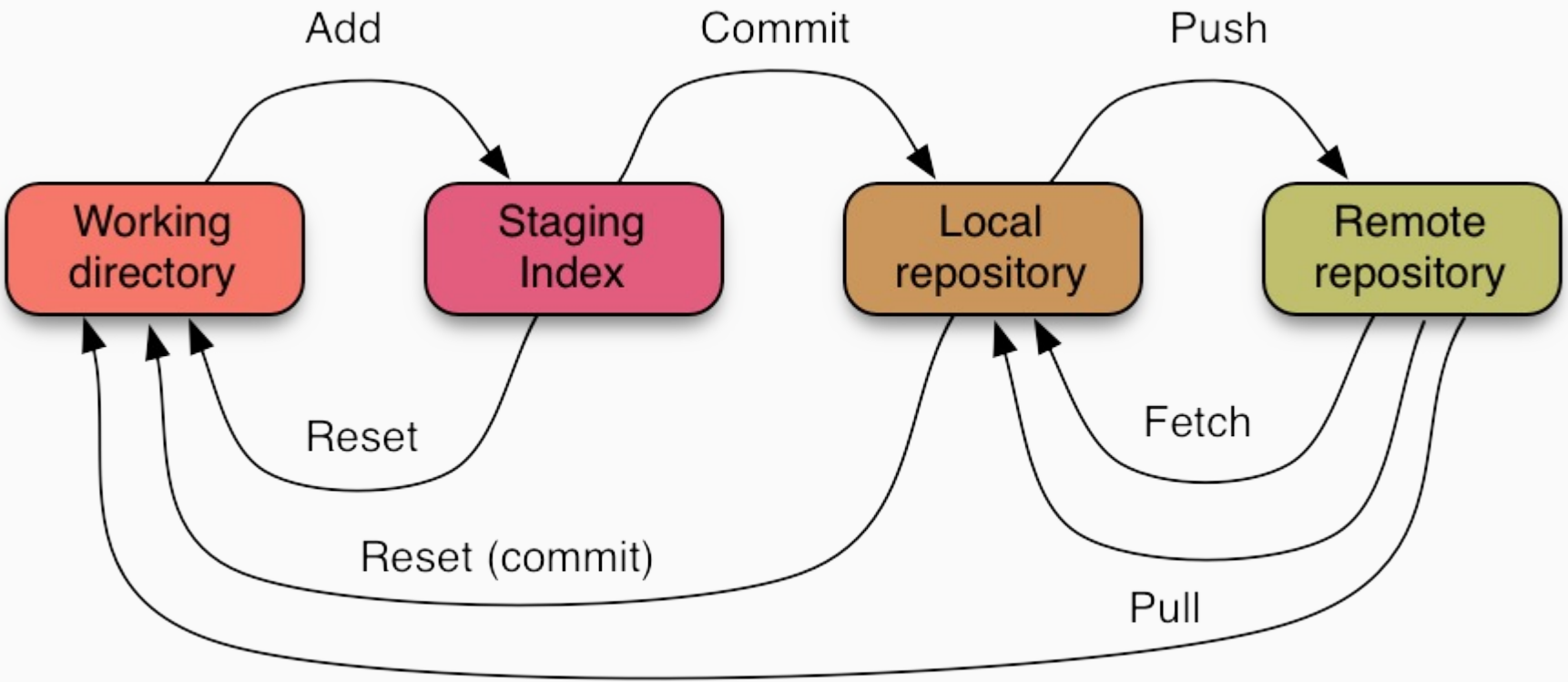
Add
Commit
Push
Working directory
Staging Index
Local repository
Remote repository
Reset
Fetch
Reset (commit)
Pull

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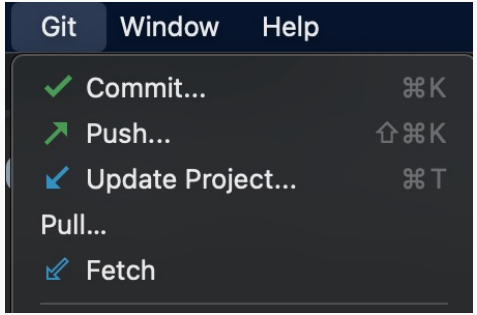
Git fetch, update, pull

- To check if the remote repository has any changes that our local repository does not have, we can fetch
    - Fetch will bring the new data without added to our local project right away
- To update your local repository with the new changes from the remote we can pull
    - Pulling is more flexible. We will see later
        - Branch to branch
- Updating will apply changes to the same branch



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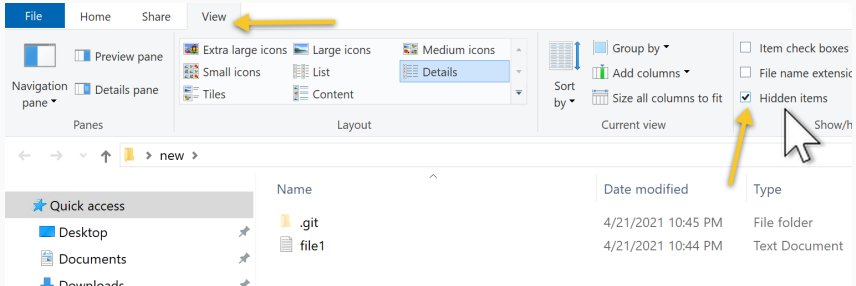
.git folder

- Local repositories are in the project in a folder called .git, which is a hidden folder

- To see hidden folders on Mac, use this shortcut in the folder: Command + Shift + .
- To see hidden folder on Windows, click on the View tab and show Hidden items



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Git Ignore File

- We can ignore files we don’t want to keep track of
- The .gitignore file allows you to define names of file/folders you don’t want to keep track of changes for
- The .gitignore file is made like any other file

- Note: You can not un-track a file already been tracked using .gitignore file. That's why .gitignore file usually created before anything get staged.

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Git in IntelliJ – git ignore

- To make a .gitignore file in the project right click on the project level -> create new file -> call it .gitignore
- Add all the files you want to ignore tracking of
- Files to ignore in a java project:
  - .idea, out, *.xml, *.iml

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[EXTRA] How to remove folder that accidentally tracked and pushed to GitHub

Example: If you have accidentally pushed your .idea folder with many files in it, here is the steps to untrack it.

- Go to IntelliJ terminal in bottom menu
- Type this command : git rm -r --cached .idea and hit enter
    - if it is a file you may omit -r so it will be git rm --cached fileName
- This will remove .idea folder from local git repo and will not track it from this point on.
- Make a commit and select all un-versioned files from commit window and commit
- Push it back to remote and observe it's been removed from remote repo as well

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Reset Commit

Right click on the commit you want to go back to and select Reset Current Branch to Here

Git Reset options:

Soft: file doesn’t update, but changes are staged automatically

Mixed: file doesn’t update, but changes are not staged automatically

Hard: file will lose all changes until the selected commit

Revert vs Reset: Revert is for pushed commits, history is perserved

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