

# GIT

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PROGRAMMING COURSE 28.03.2023

# Git

**Distributed version-control system for tracking changes in source code during software development**

basics

stages

branch

merge

remotes

advanced

working directory

basics

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branch

merge

remotes

advanced

working directory

staging area

basics

stages

branch

merge

remotes

advanced

working directory

staging area

repository

basics

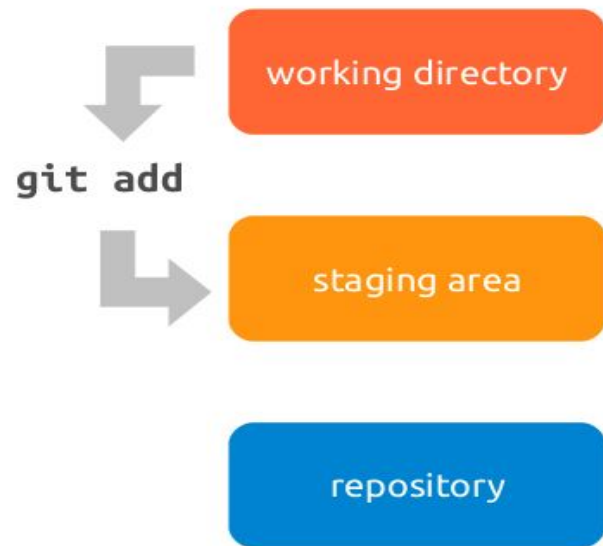
stages

branch

merge

remotes

advanced



basics

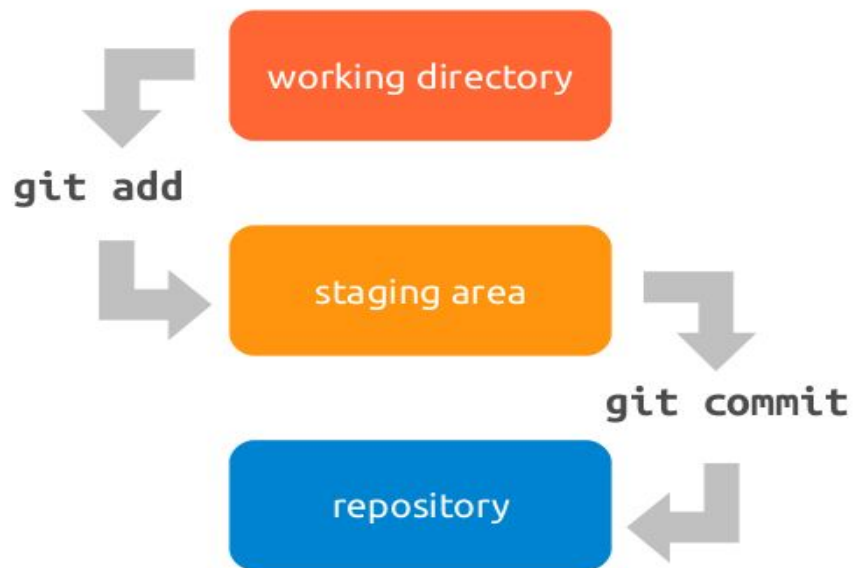
stages

branch

merge

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advanced



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working directory

staging area

repository

`git commit -a`



basics

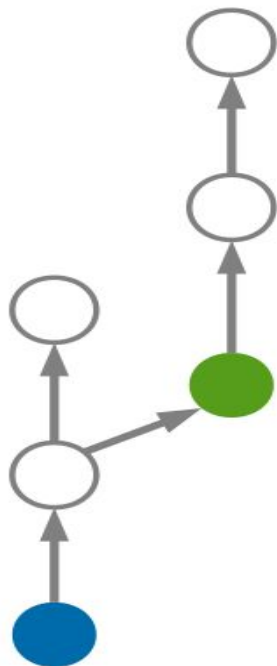
stages

branch

merge

remotes

advanced



basics

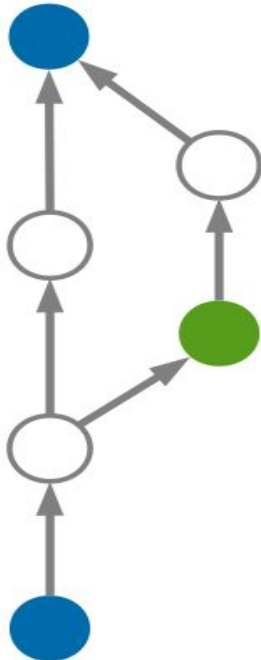
stages

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working directory

staging area

local repository

remote repository

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stages

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merge

remotes

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working directory

staging area

local repository

remote repository

`git add/mv/rm`

`git commit`

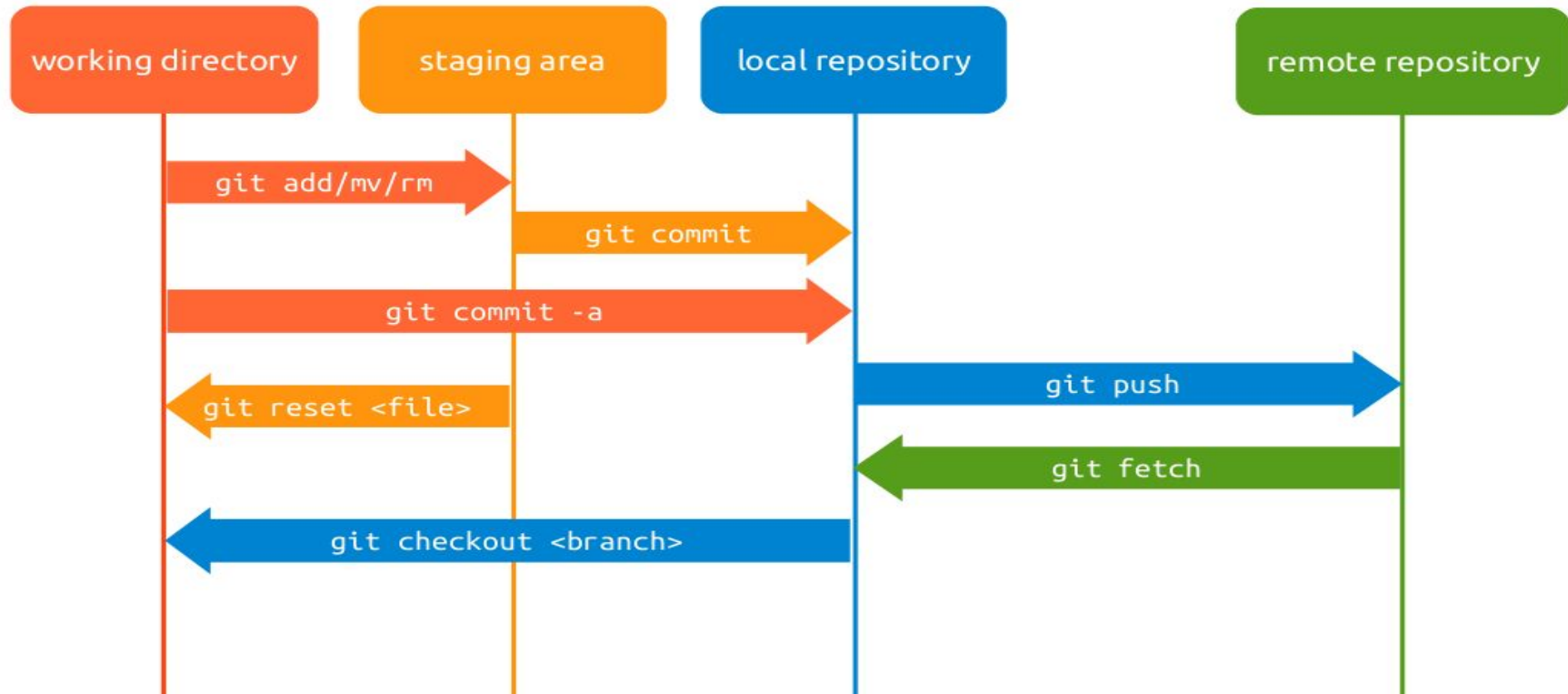
`git commit -a`

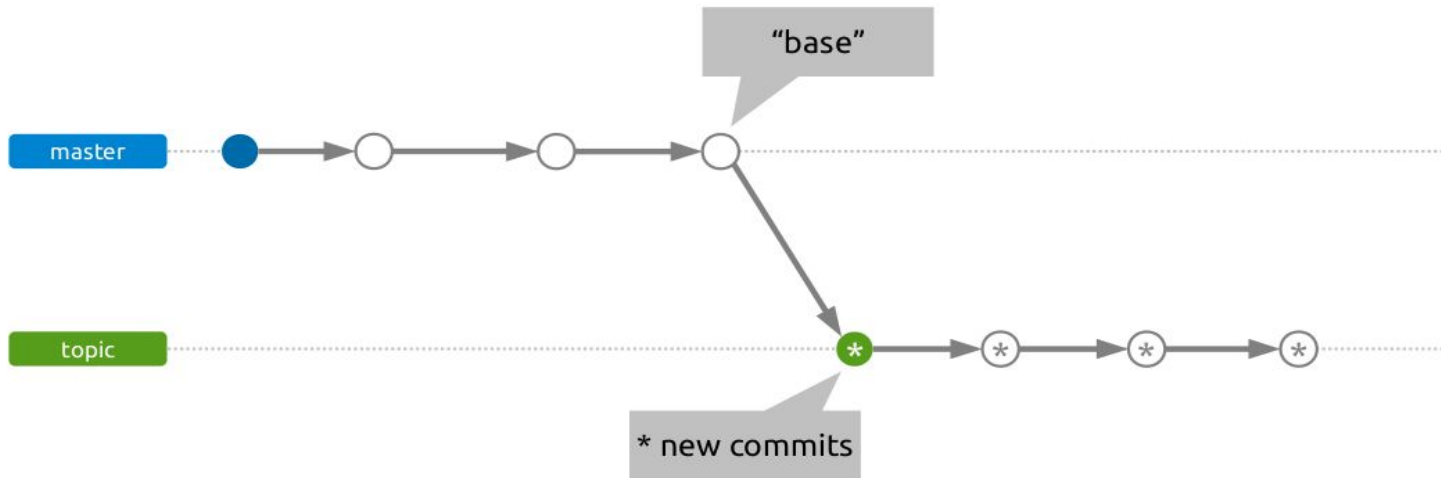
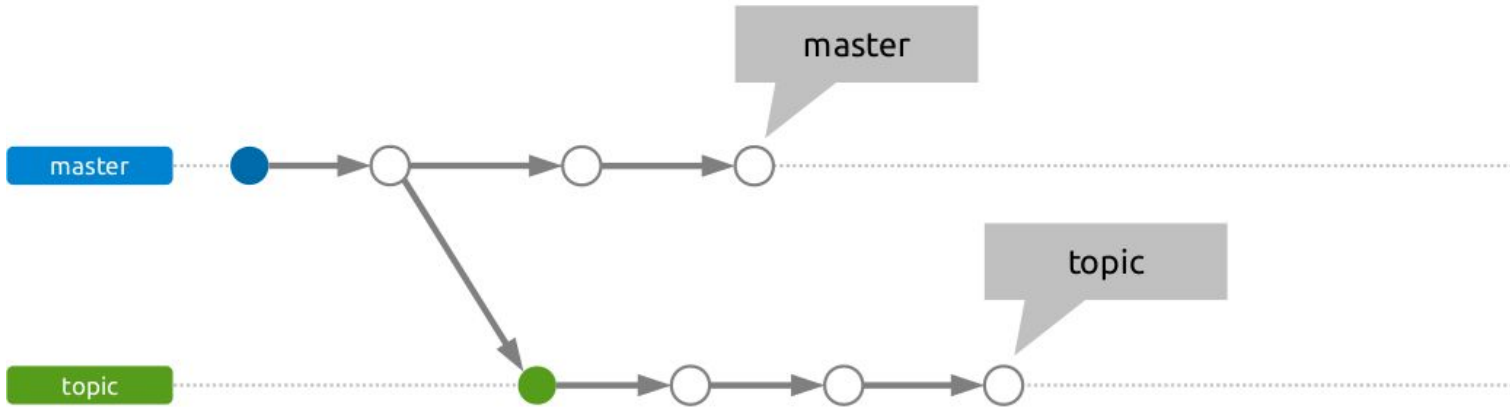
`git reset <file>`

`git push`

`git fetch`

`git checkout <branch>`





# Exercise

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Go to:

[https://git.e5.physik.tu-dortmund.de/bmitreska/programming\\_course\\_2023](https://git.e5.physik.tu-dortmund.de/bmitreska/programming_course_2023)

ssh://[git@git.e5.physik.tu-dortmund.de](https://git.e5.physik.tu-dortmund.de):10022/bmitreska/programming\_course\_2023\_v1.git

1. Clone the project: `git clone`
2. Make a new branch: `git checkout -b branch_name`
3. Make changes in `particles.txt`
4. Commit the changes
5. Push the changes to your branch
6. Make a merge request to the `main(master)` branch