

Git and GitHub

إعداد:

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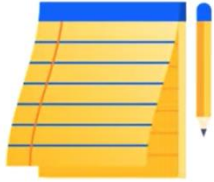
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What is Version Control System?

1. Content



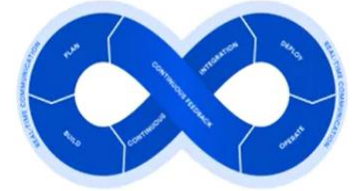
- ❑ Complete history tracked and available.

2. Teams



- ❑ Supports many workflows.
- ❑ Collaboration
- ❑ Quality through team communication and reviews.

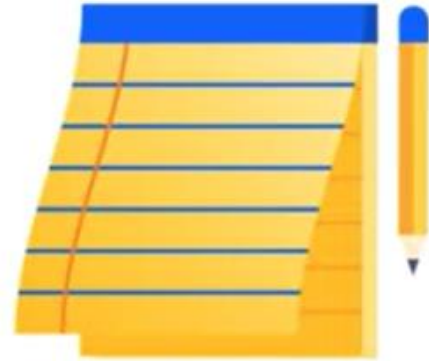
3. Agility



- ❑ Manages small changes.
- ❑ Easily test, fix, or undo ideas and changes.

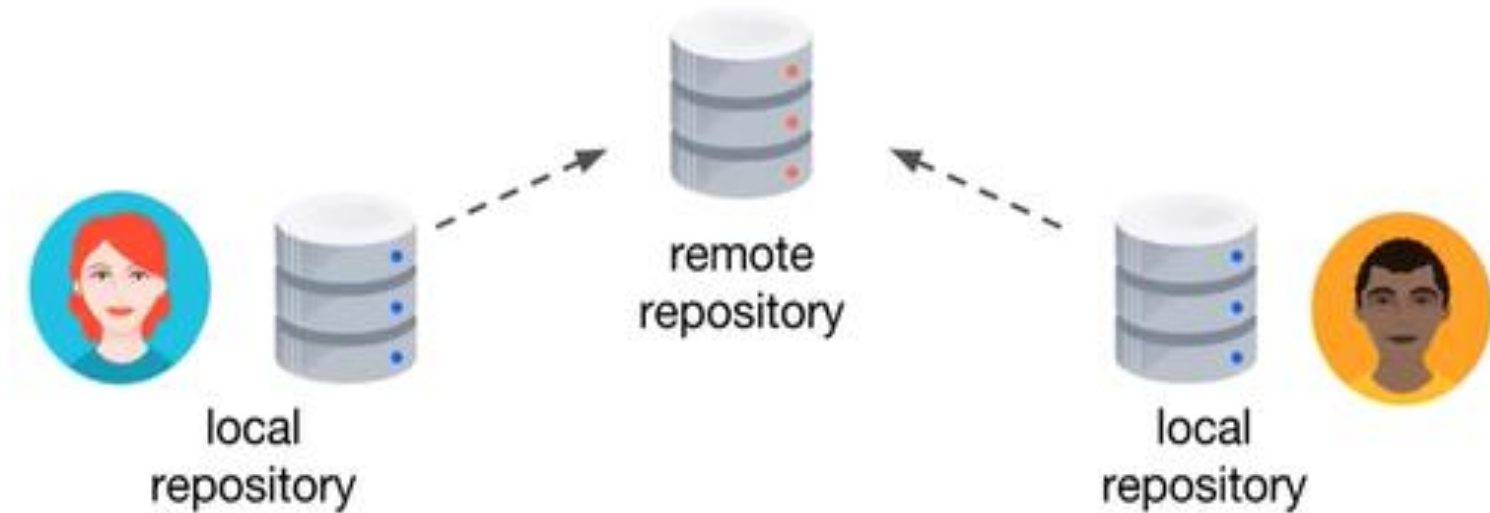
What type of content?

- ❑ Source code.
- ❑ Automated tests.
- ❑ Server configuration.
- ❑ Documentation.
- ❑ Book.
- ❑ Website content.



Distributed Version Control System (DVCS)

- Usually has these characteristics:



1. Which one of the following statements about version control is true?

- With distributed version control, each user has a local copy of the project history.
- Version control only manages source code.
- You must be online to use distributed version control.

What is git?

- ❑ It is a (DVCS).
- ❑ It is an Open Source Software Project (OSS Project).
- ❑ It has a vibrant community and eco system.
- ❑ Adapts to many types of projects and workflows.
- ❑ It works well for small and large projects.

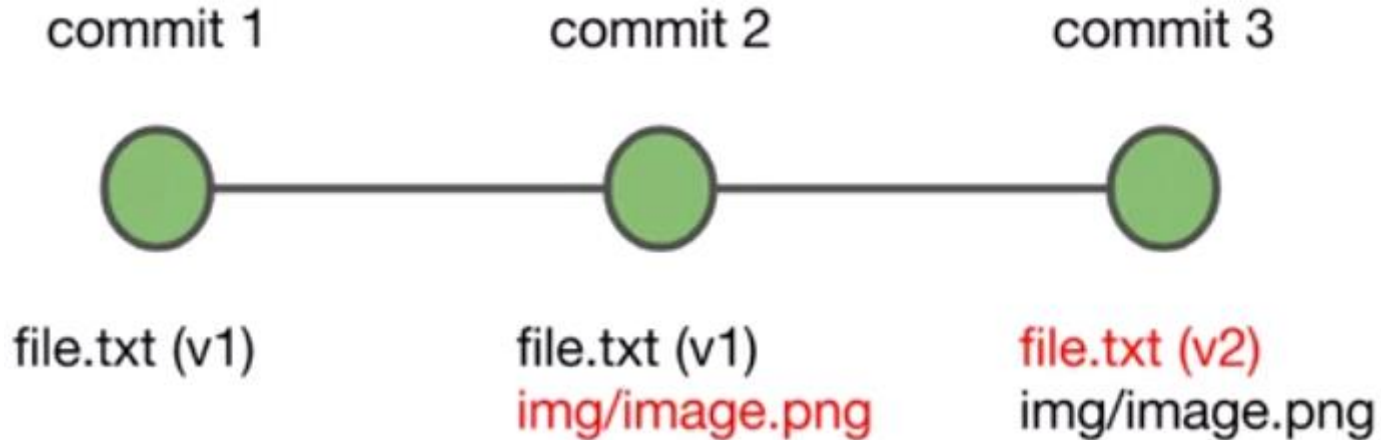


git

What is a git repository?



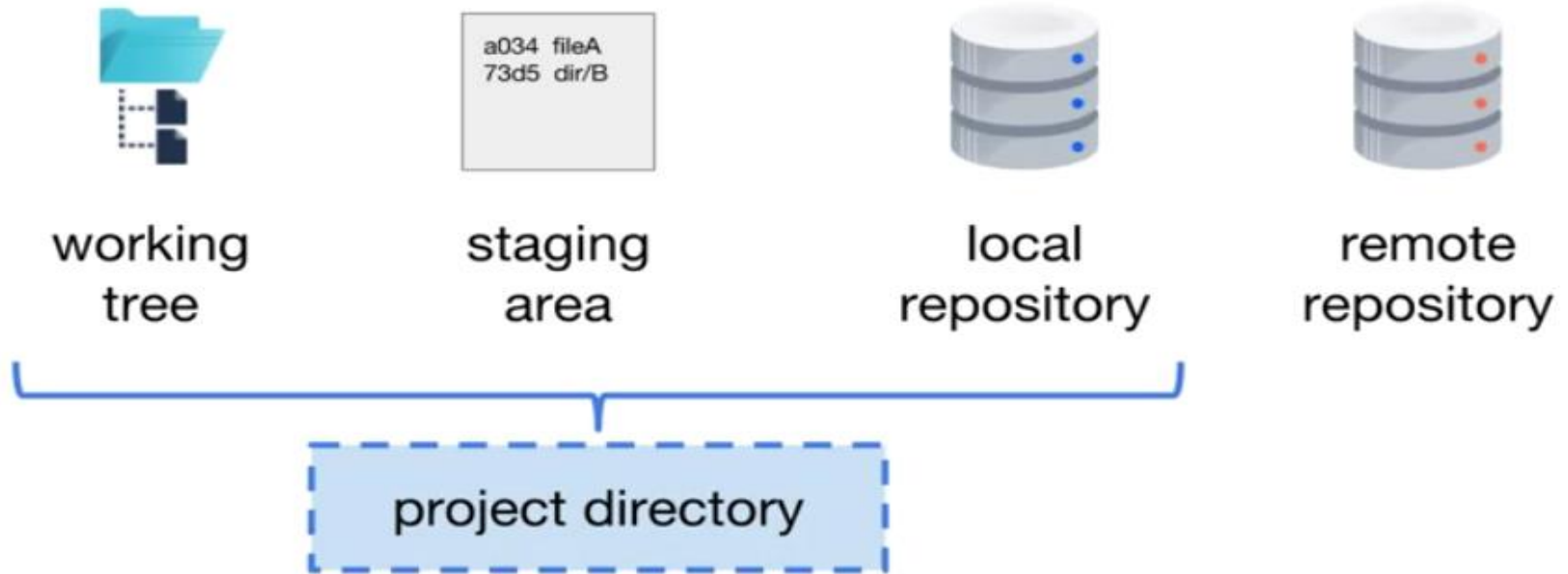
- A series of snapshots, named “commits”.



2. Which one of the following statements about git is true?

- Git is owned by a single company.
- Git can be used while offline.
- A commit only holds the changes to a project since the previous commit.

Locations of git



Working tree



working
tree



staging
area



local
repository



remote
repository

a single
commit's
directories and
files

Staging area **or** index



working
tree



staging
area/index



local
repository



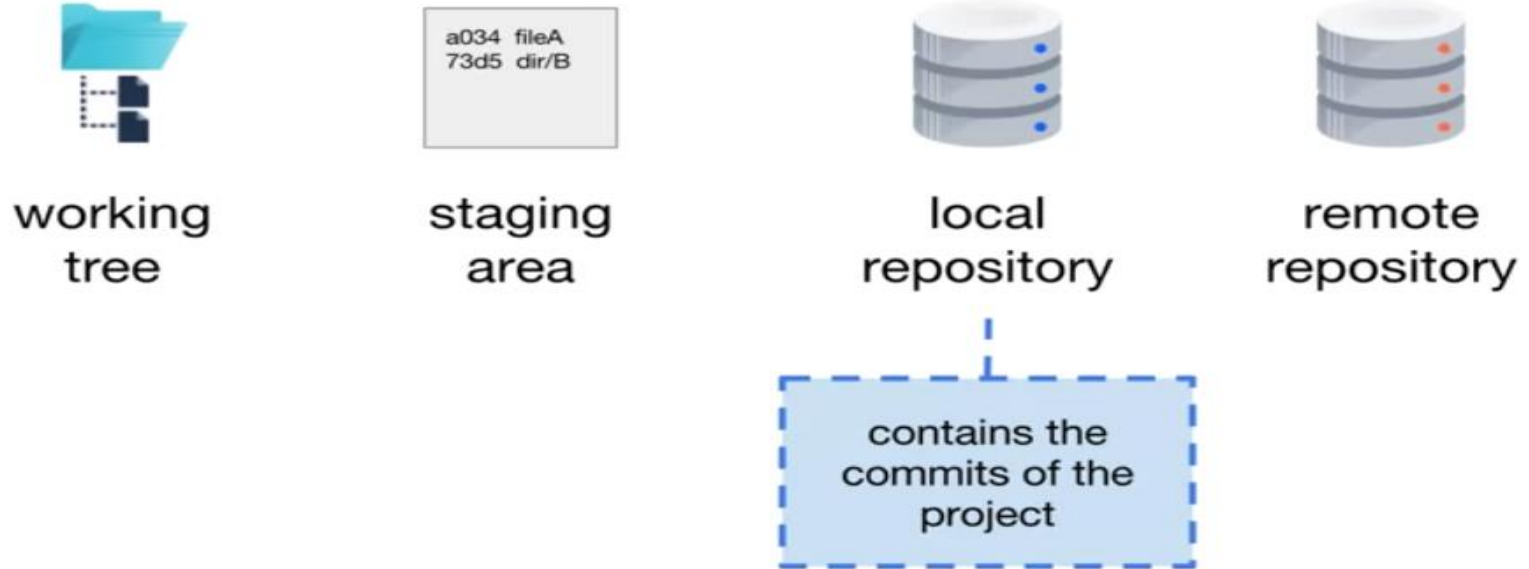
remote
repository



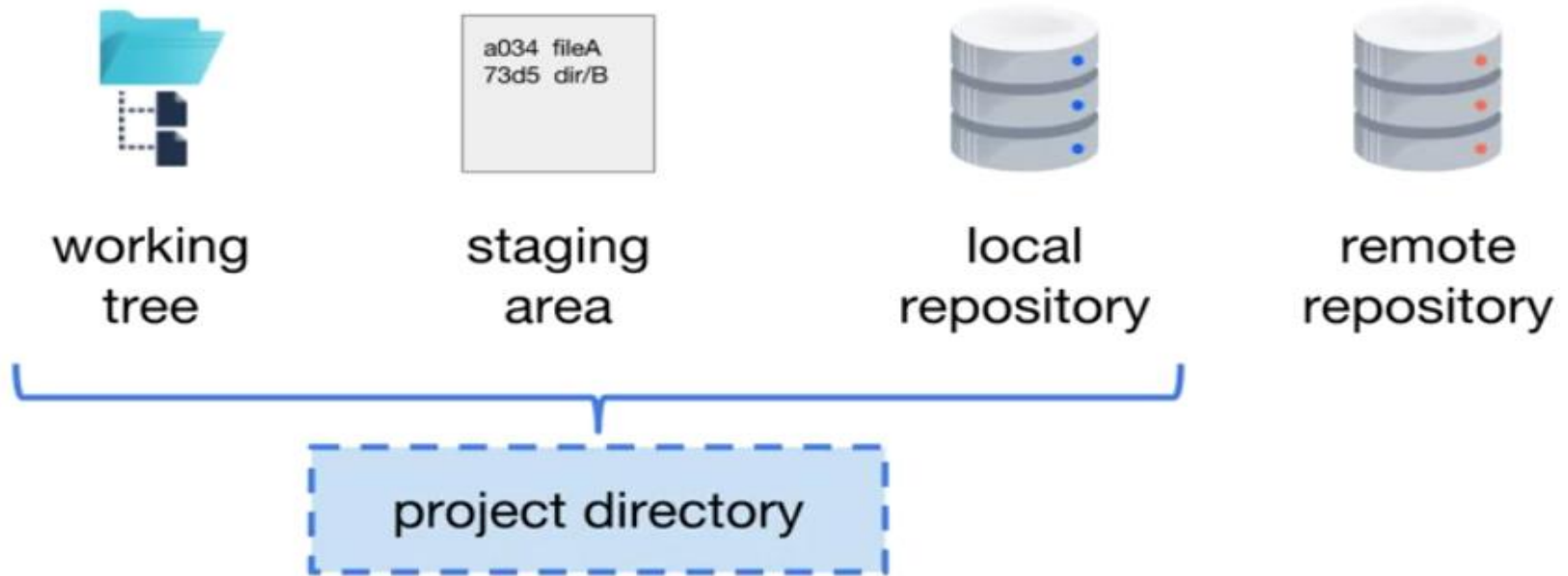
3. Which one of these statements is true?

- The staging area contains a list of files that will be in the next commit.
- The working tree is also named “index”.
- The working tree contains the history of the project.

Local repository



Project directory



Remote repository



working
tree



staging
area



local
repository



remote
repository



4. Which one of these statements is true?

- The project directory contains the local and the remote repository.
- If you delete your project directory, you are also deleting your local repository.
- The project directory contains the remote repository.



Thank You ..