Tea Time @ Case Western Reserve University by the Solar Durability and Lifetime Extension Center

Jack Mousseau

Git

git-scm docs

Version Control System



Version 1

Version 2

Version 3

Version Database

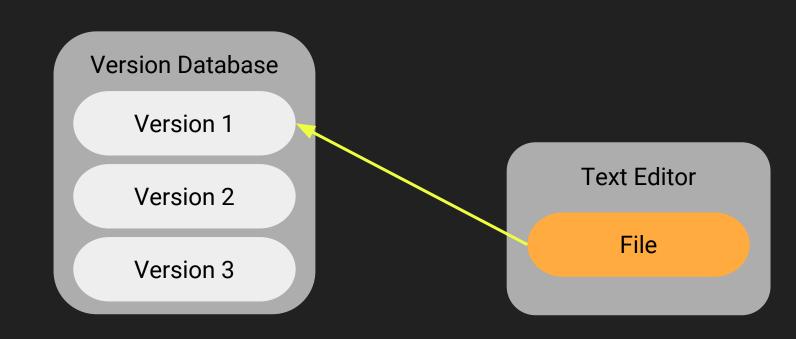
Version 1

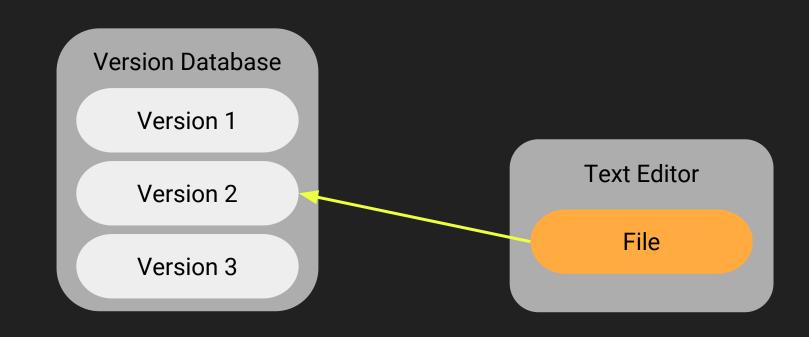
Version 2

Version 3

Text Editor

File





Version Database

Version 1

Version 2

Version 3

Text Editor

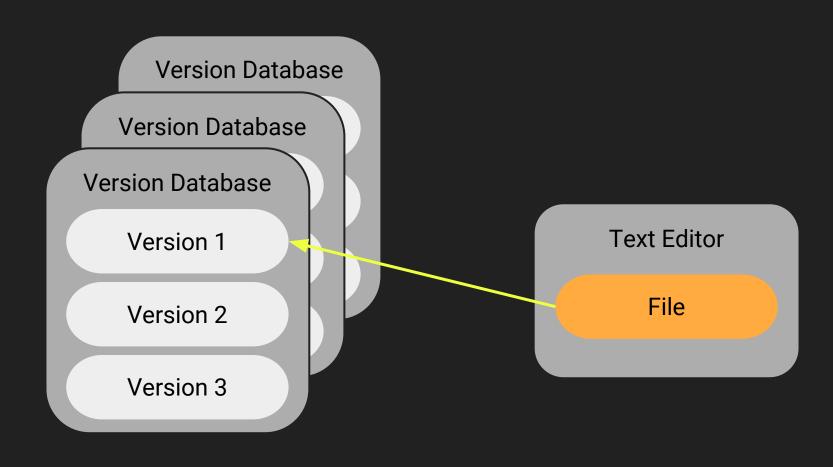
File

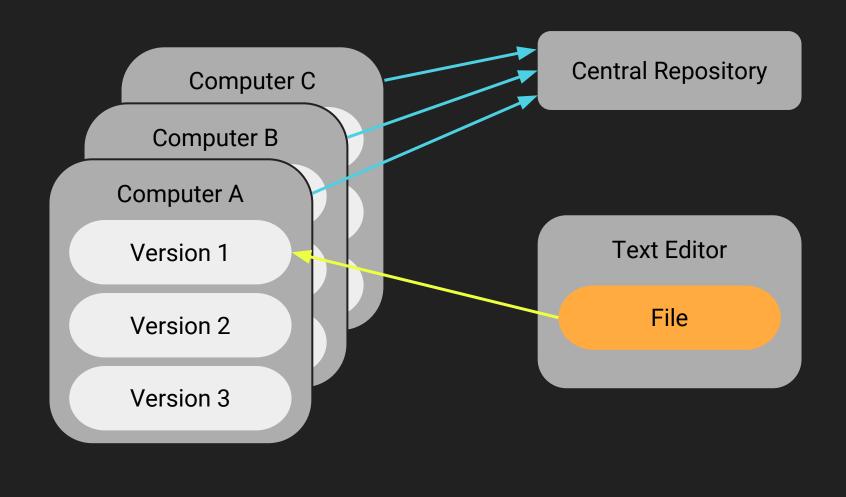
Version Database Version Database Version Database Version 1 Version 2

Version 3

Text Editor

File





Git Snapshots

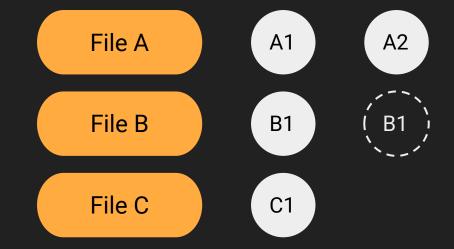
File A A1
File B B1
File C C1

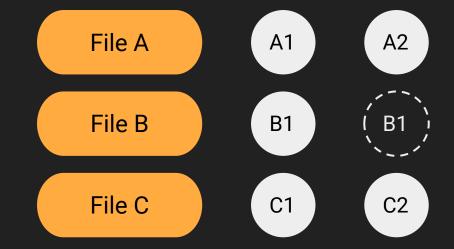
File A A1
File B B1
File C C1

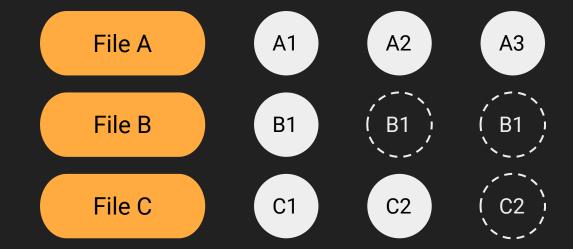
File A A1 A2

File B B1

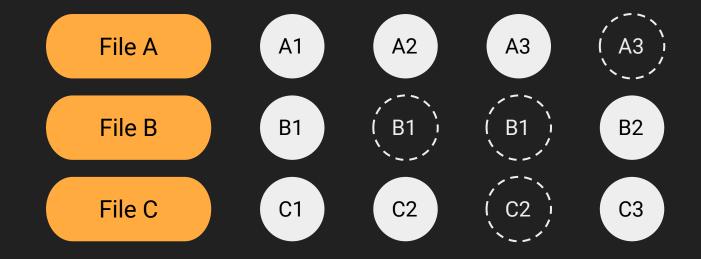
File C C1



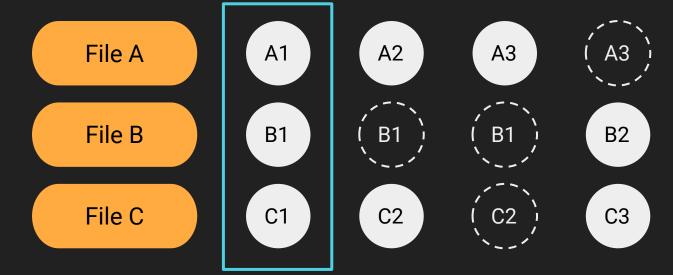


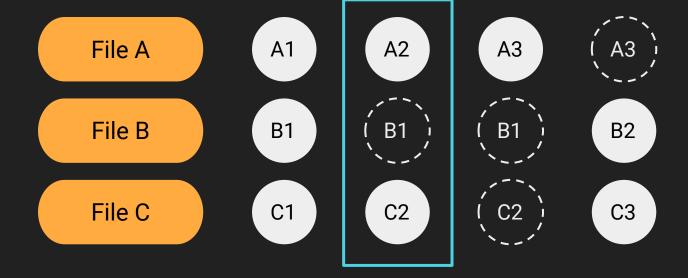


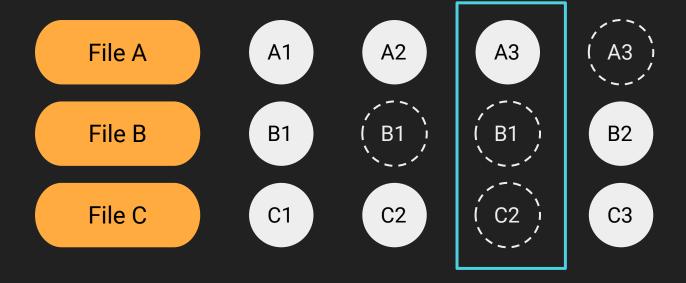
Time



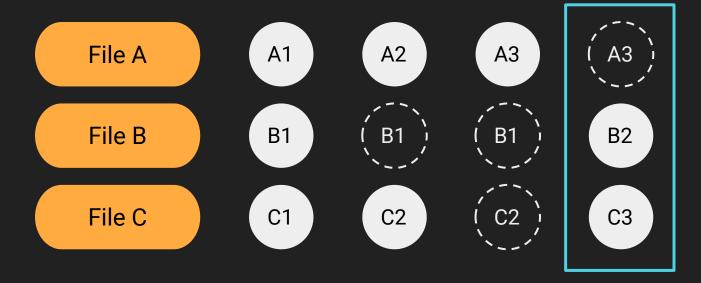
Time







Time



Time

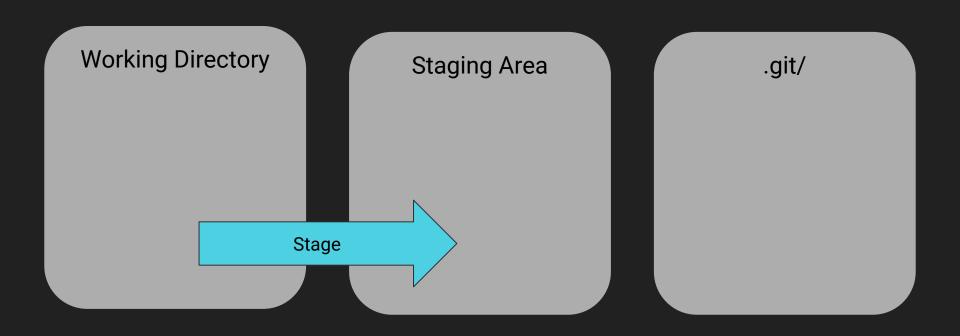
States are stored in .git/

5712daa89138b8d3d68edf10eade954941f8ff5e

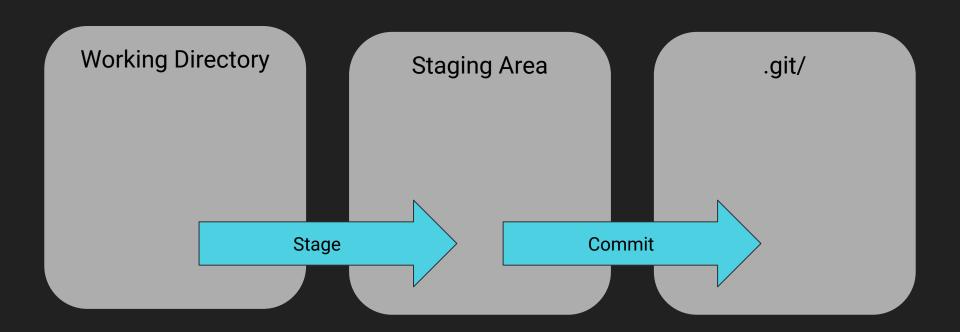
Git workflow

Working Directory Staging Area .git/

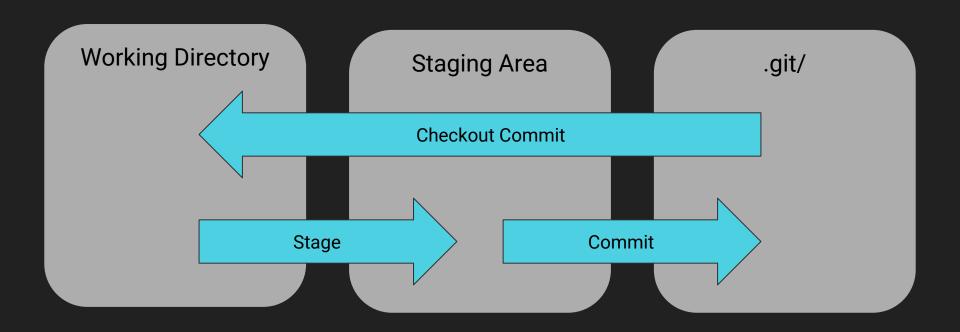
Changed a file



Commit the state



Go back to older version



Git in the command line



Initialize git

```
cd MyProject
git init
ls -a
```

View the status

git status

- 1. Add files to track,
- 2. Commit them and add commit message
- 3. Push you files to Bitbucket/Github/Gitlab

```
git add --all :/
git commit -m 'explain in this commit message'
git push
```

Routine Process working with git

```
git pull # get new files from cloud
# edit files as you want
qit add --all :/
qit commit -m 'commit message'
git push
```

Ignore certain files

```
# visit www.gitignore.io
```

vi .gitignore