

- Version Control
- What is Git?
- Why Git?
- Setup Git Account
- Setup SSH key

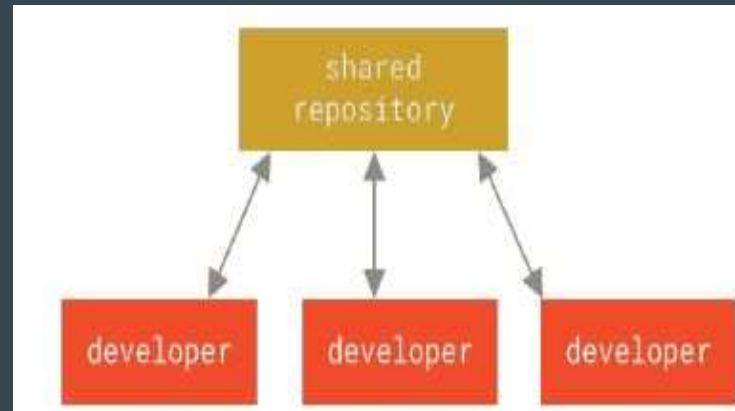
Version Control

- Allows you to recall specific versions later
- Revert back, compare changes, so on.

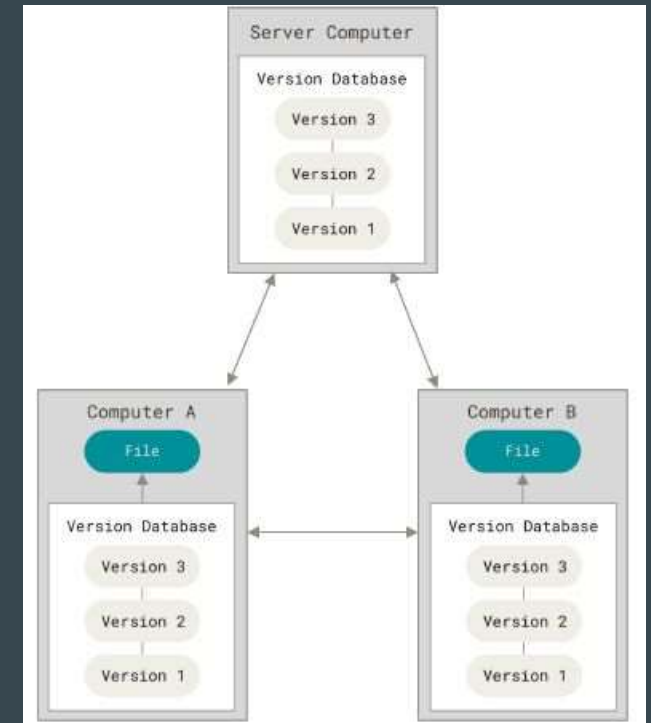
Types of Version Control



Local



Centralized



Distributed

What is Git?

- Distributed VCs
- Handle Projects
- Features like organization, team work, security...

Why Git?

- Easy to use
- Snapshots
- You don't easily lose your data
- Branching and merging Capabilities

Git Setup

Installing Git

Linux

```
sudo apt install git-all
```

Windows

- Through the download link
- Also installs **Git Bash**

MacOS

```
git --version
```

Create account and initial Setup

```
git config --global user.name "<your username>"
```

```
git config --global user.email <your email>
```


SSH Key

- Password authentication can be hacked.

```
ssh-keygen -t rsa -C <your email>
```

- Add ssh key to ssh-agent

```
eval $(ssh-agent -s)
```

```
ssh-add ~/.ssh/id_rsa
```

- Add ssh key to Github account
- Now you can easily push