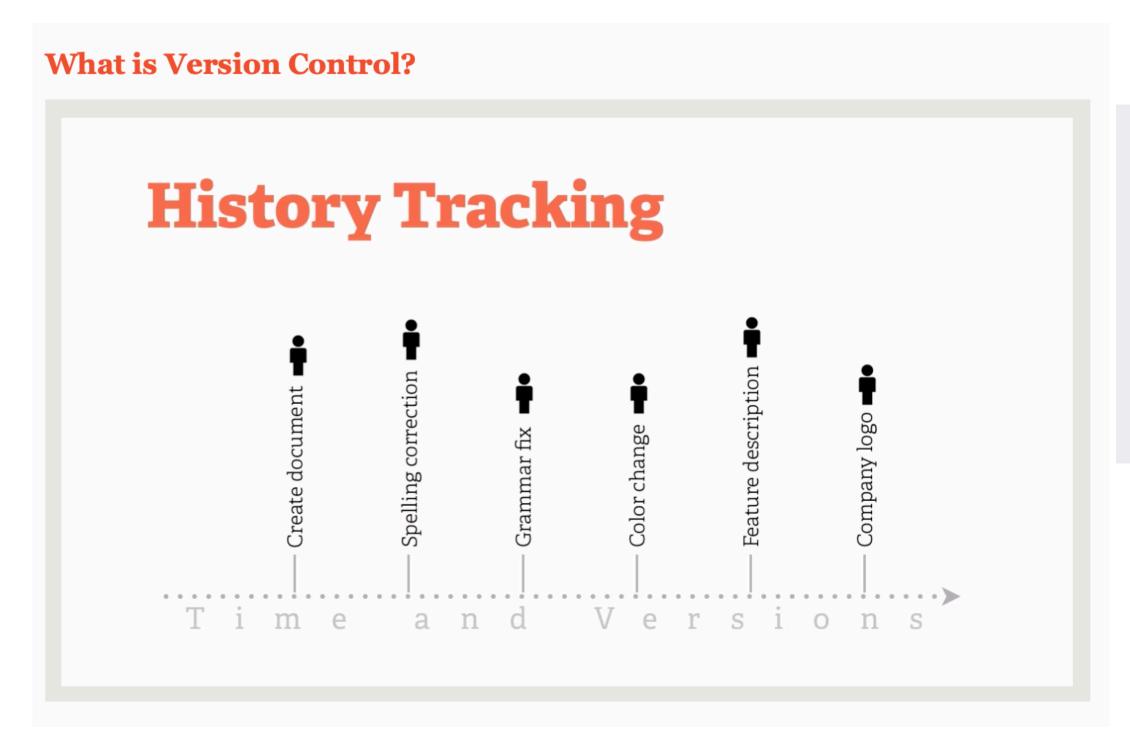
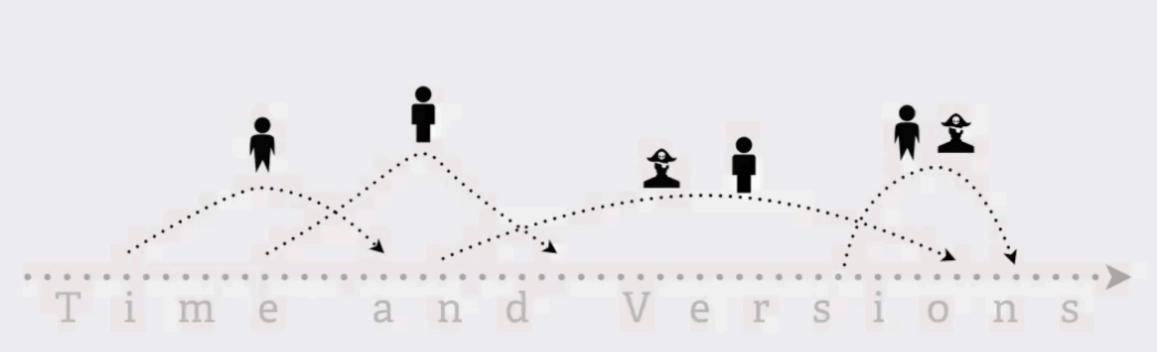


# VERSION CONTROL





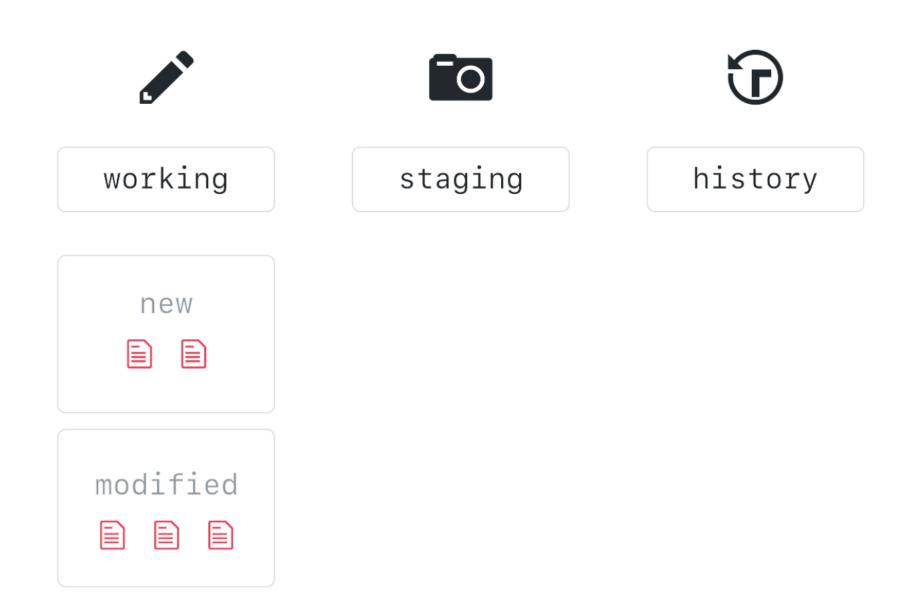
#### GIT & GITHUB

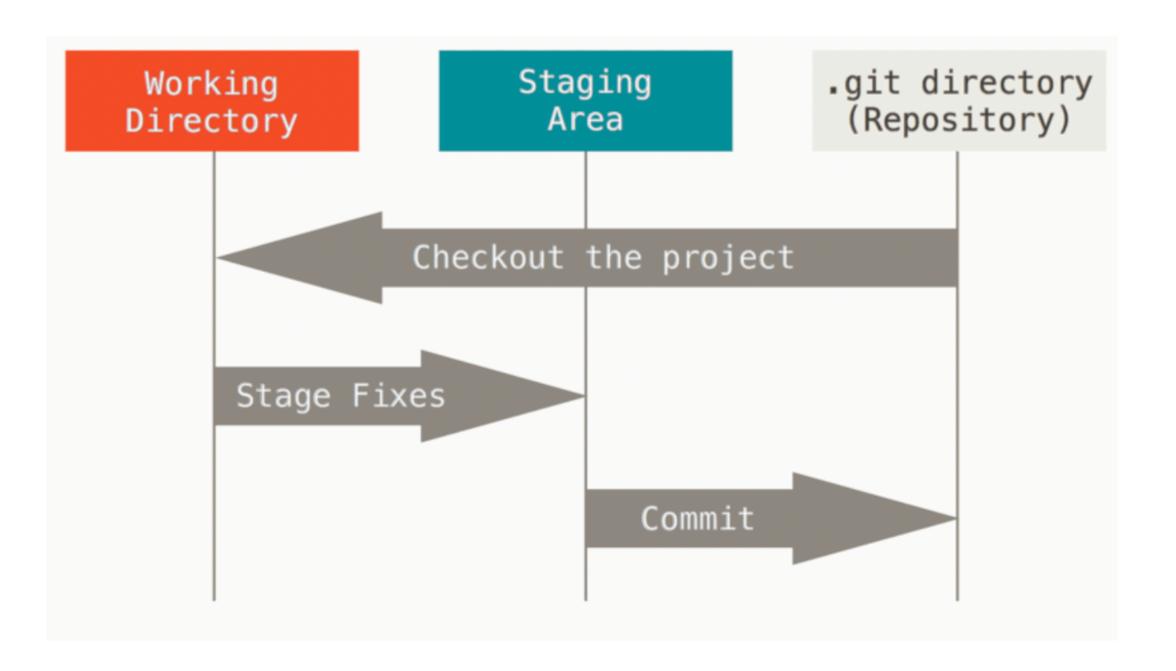
Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

GitHub is a collaboration platform built on top of a distributed version control system called Git.

A Git repository is a virtual storage of your project. It allows you to save versions of your code, which you can access when needed.

# GIT WORKING MECHANISM





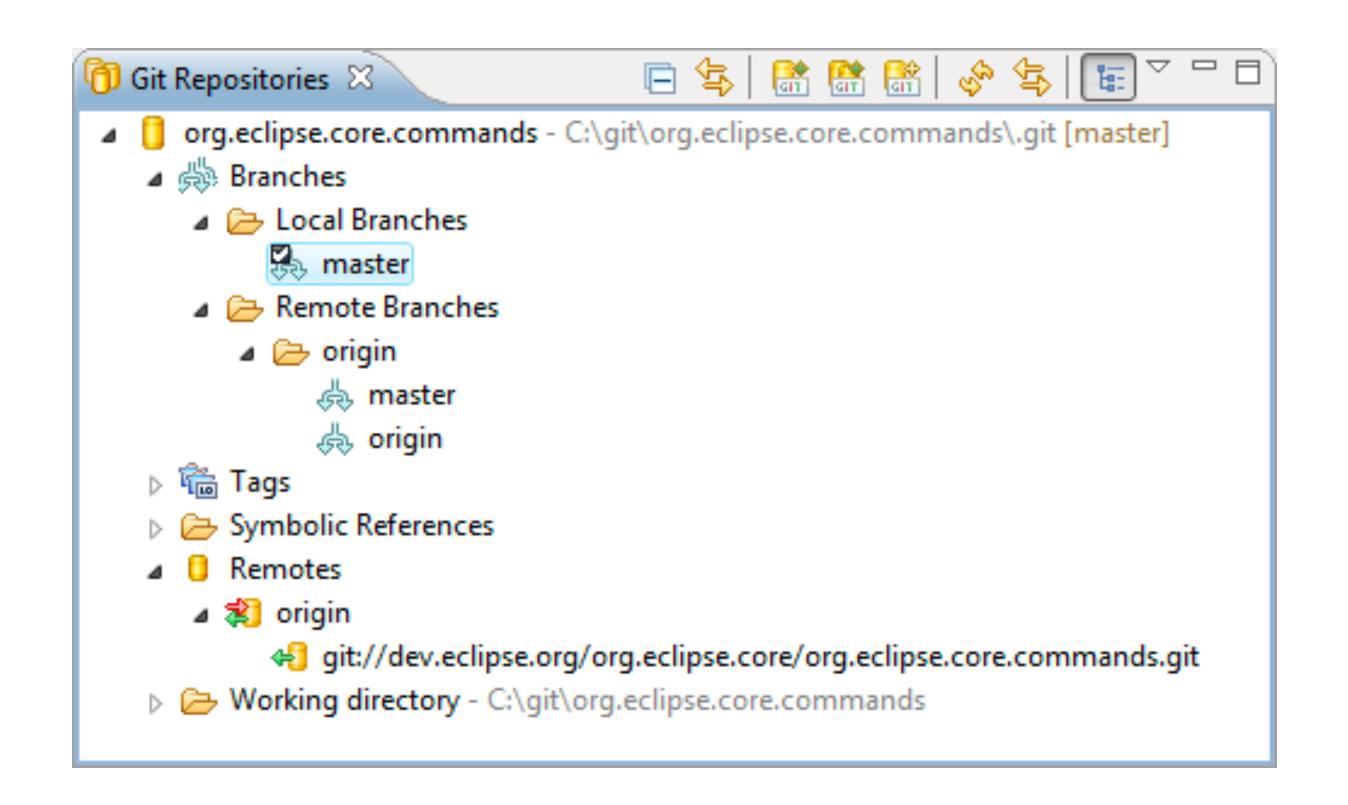


# EGIT-ECLIPSE

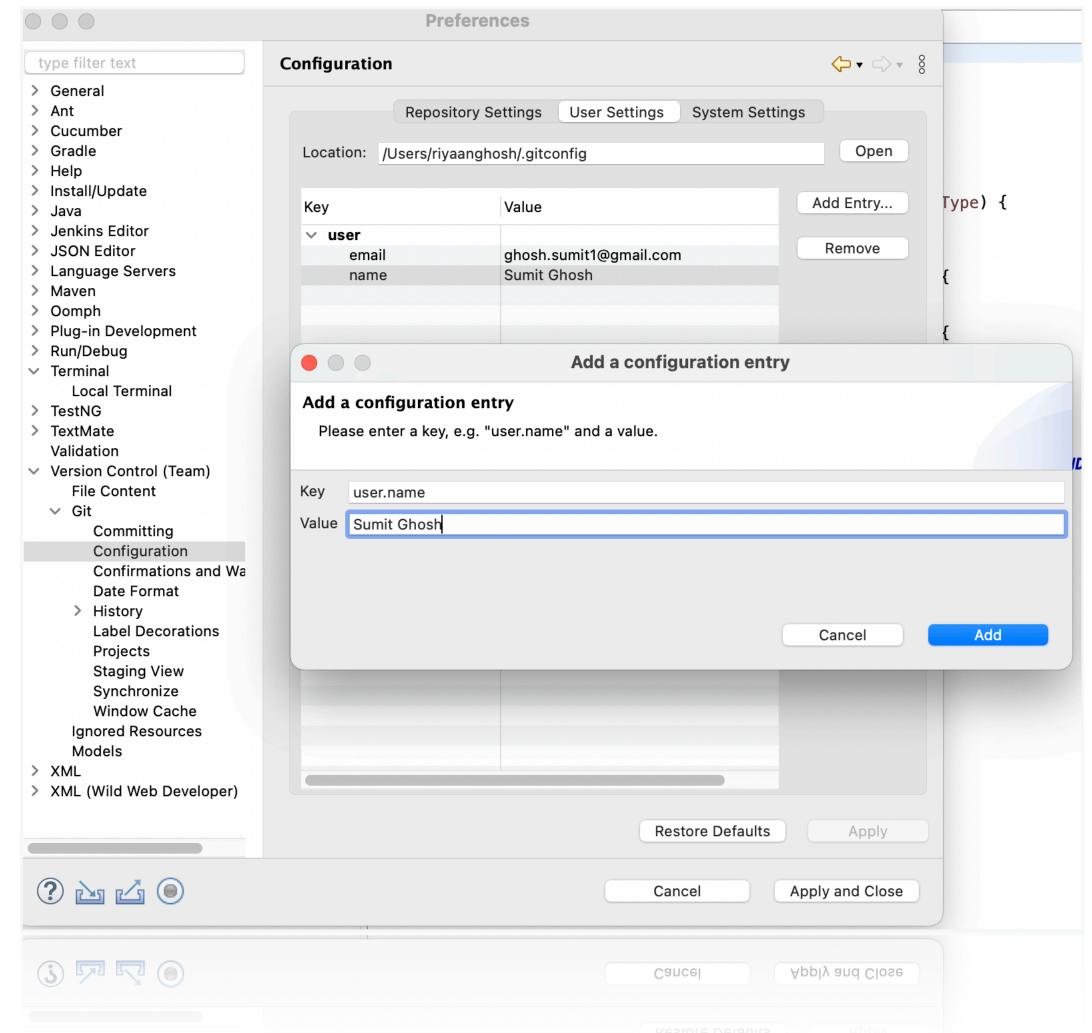
#### **EGIT**

EGit is an Eclipse Team provider for the Git version control system.

Git is a distributed SCM, which means every developer has a full copy of all history of every revision of the code, making queries against the history very fast and versatile.



### CONFIGURATION



Window > Preferences > Team > Git > Configuration

## CREATE REPOSITORY

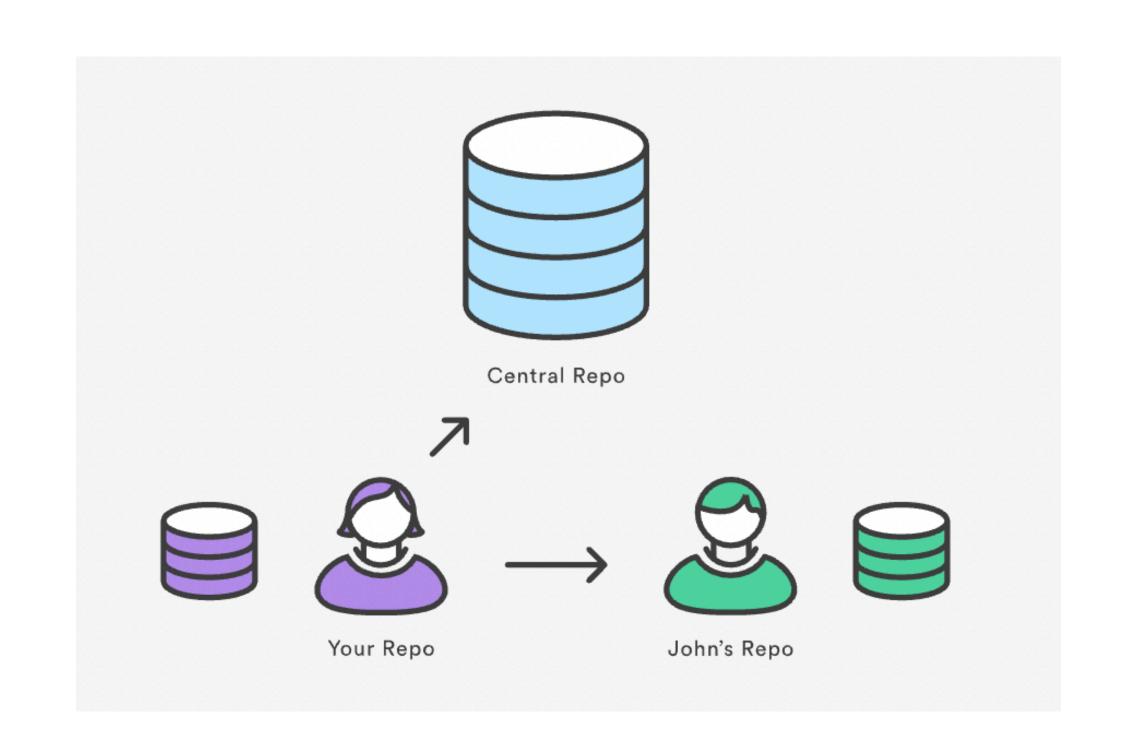
- Create Repository
- Commit
- Inspect History
- Commit Reverse
- Stashes
- Git Ignore
- Add Index

# **BRANCHES**

- Create Branch
- Checkout Branches
- Merge Branch

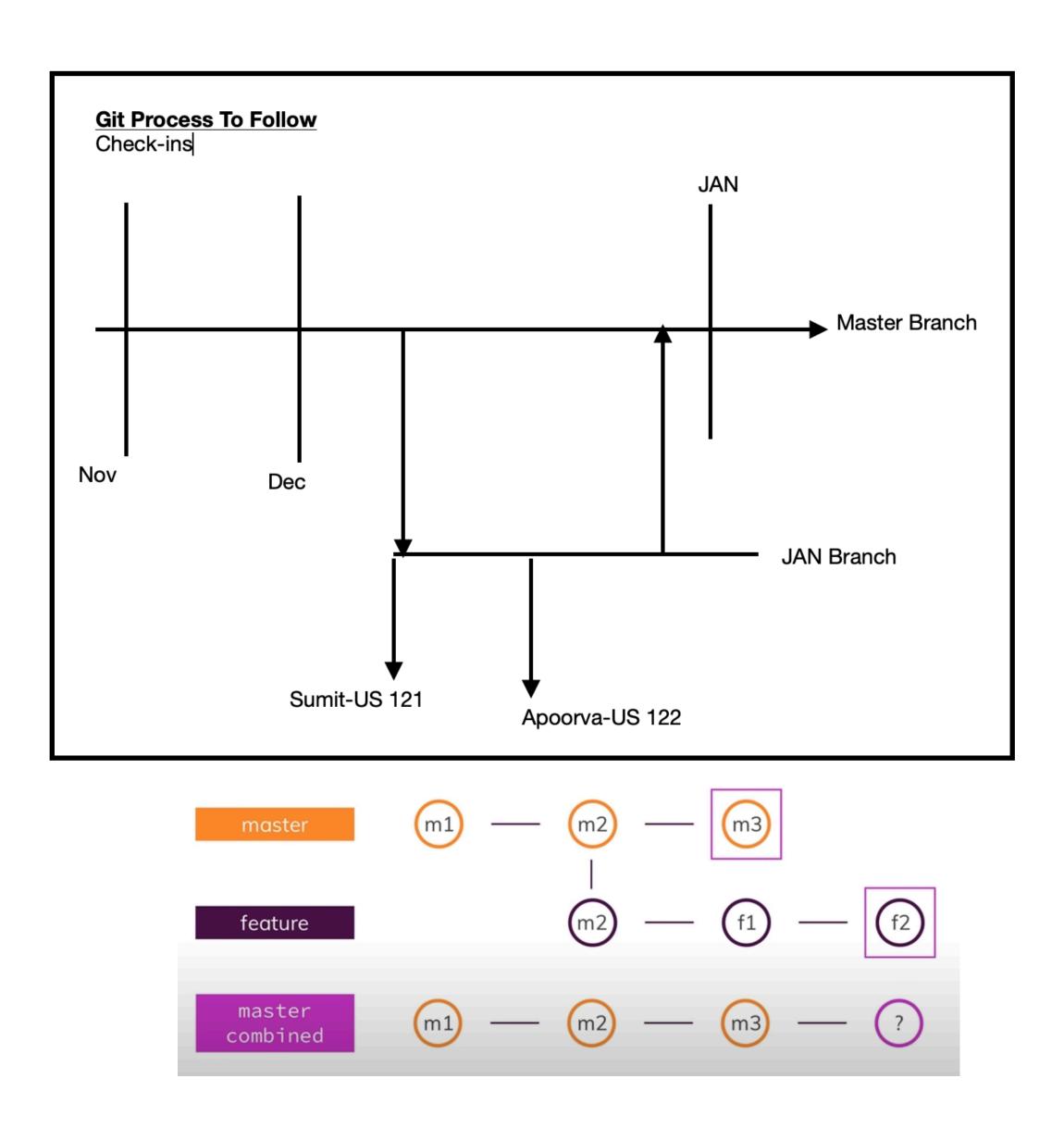
## **GITHUB**

- CREATE GITHUB REPO
- CONNECT LOCAL REPO
- GIT PUSH
- GIT PULL
- **EXISTING REPO**



#### **WORKING WITH TEAM**

- Code Management
- Resolve Git Conflicts
- Git Rebase
- Pull Request





# GIT BASH

#### GIT BASH

- Setup Git Bash
- Git version
- Local Repository
  - Git init
  - Git status
  - Git add

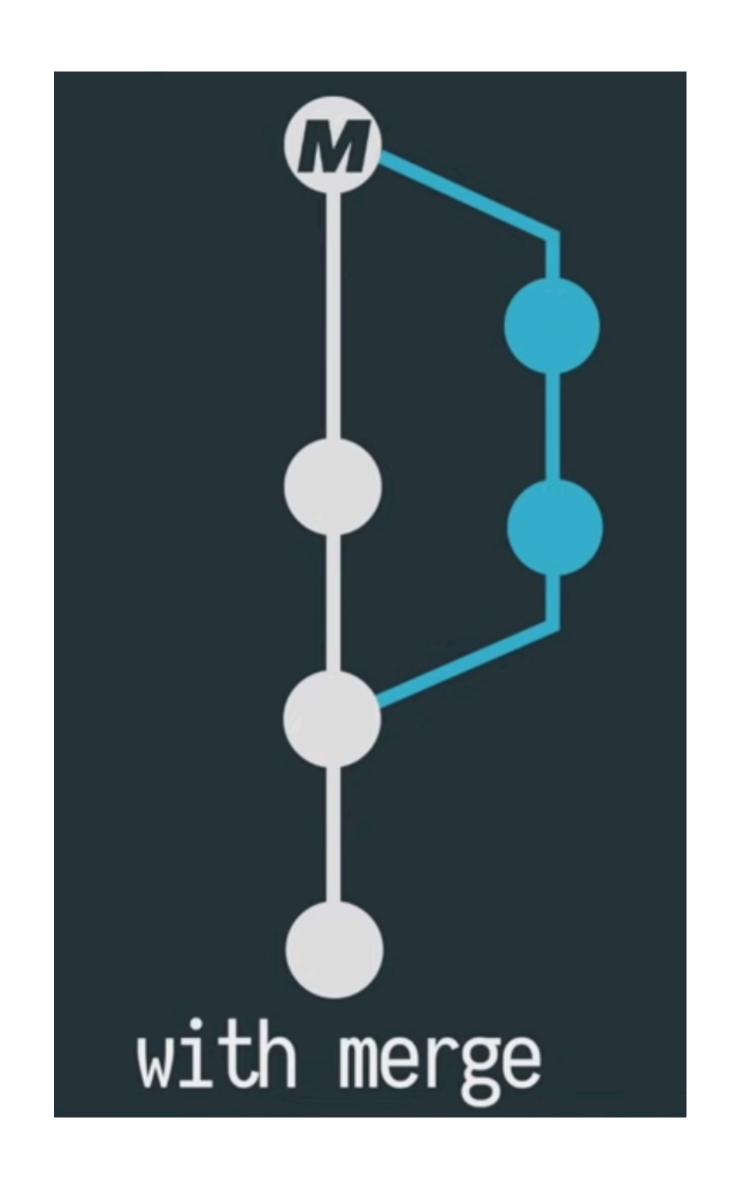
#### ▶ Git commit -m "message"

#### Git -help

```
These are common Git commands used in various situations:
start a working area (see also: git help tutorial)
            Clone a repository into a new directory
            Create an empty Git repository or reinitialize an existing one
work on the current change (see also: git help everyday)
            Add file contents to the index
            Move or rename a file, a directory, or a symlink
  restore Restore working tree files
            Remove files from the working tree and from the index
examine the history and state (see also: git help revisions)
            Use binary search to find the commit that introduced a bug
            Show changes between commits, commit and working tree, etc
            Print lines matching a pattern
            Show commit logs
            Show various types of objects
          Show the working tree status
grow, mark and tweak your common history
            List, create, or delete branches
            Record changes to the repository
            Join two or more development histories together
            Reapply commits on top of another base tip
            Reset current HEAD to the specified state
          Switch branches
            Create, list, delete or verify a tag object signed with GPG
collaborate (see also: git help workflows)
            Download objects and refs from another repository
            Fetch from and integrate with another repository or a local branch
            Update remote refs along with associated objects
```

### WORKING WITH BRANCH

- Working with Branch
  - Git branch
  - Git Checkout
  - Git Fetch
  - Git log
- Merge Branch
  - Git merge



# REMOTE REPOSITORY

- Git remote
- Git push
- Git pull
- Git clone



# RESOURCES

- https://gitexplorer.com/
- https://git-scm.com/
- https://github.com
- https://www.atlassian.com/git/tutorials/what-is-git
- https://www.youtube.com/watch?v=CRIGDDprdOQ

