

# Git Fundamentals

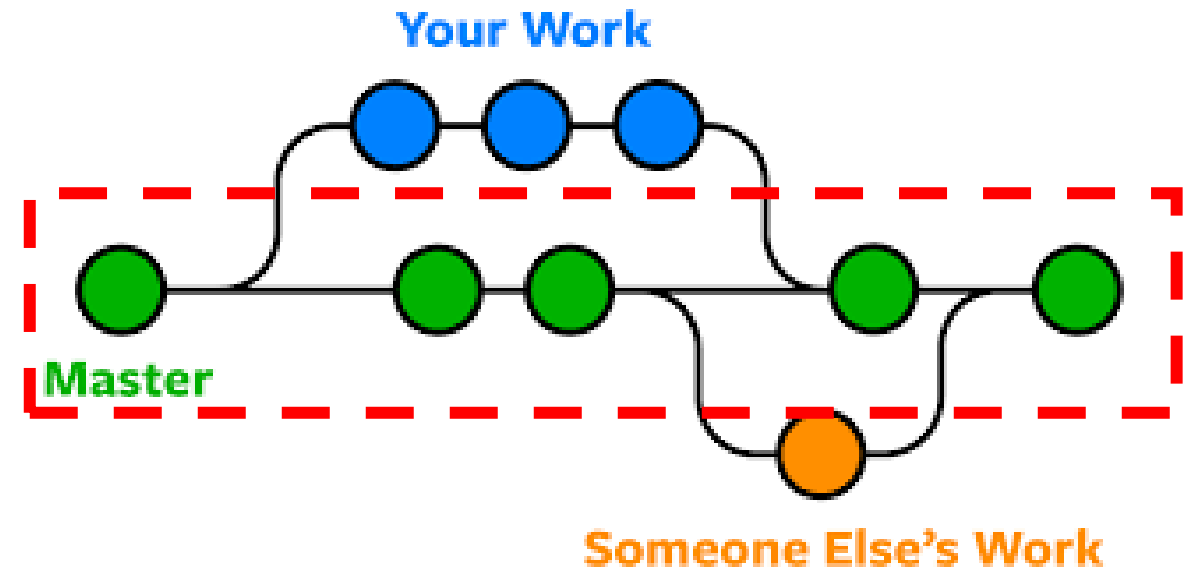
## Day 3:

## Commits



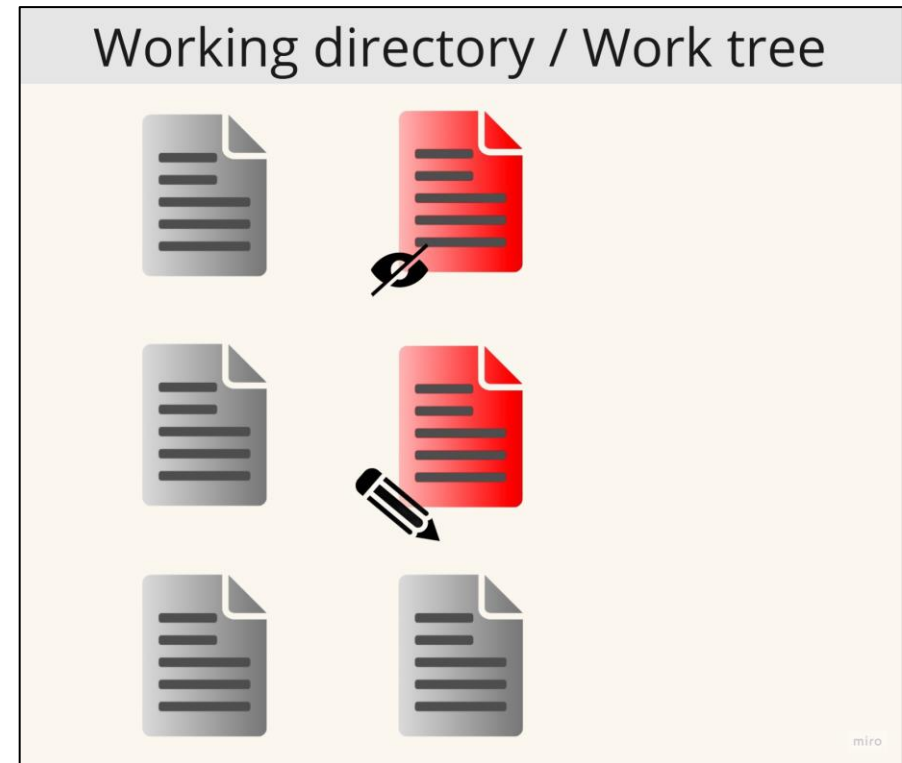
# Today:

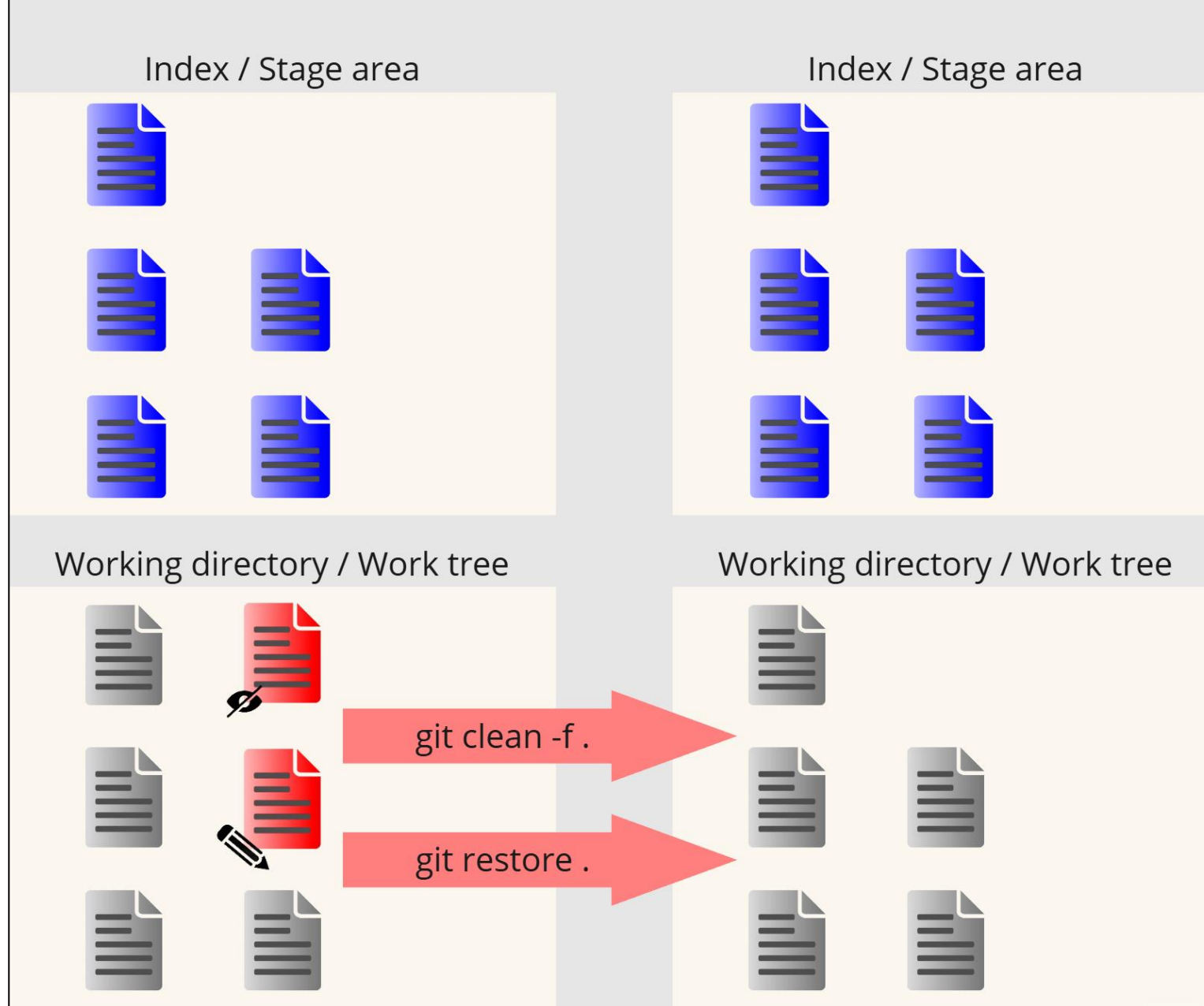
- ✓ Day 2 Recap
- ✓ Commit guidelines
- ✓ Navigating and comparing commits
- ✓ Ignoring files



# Recap: Work tree

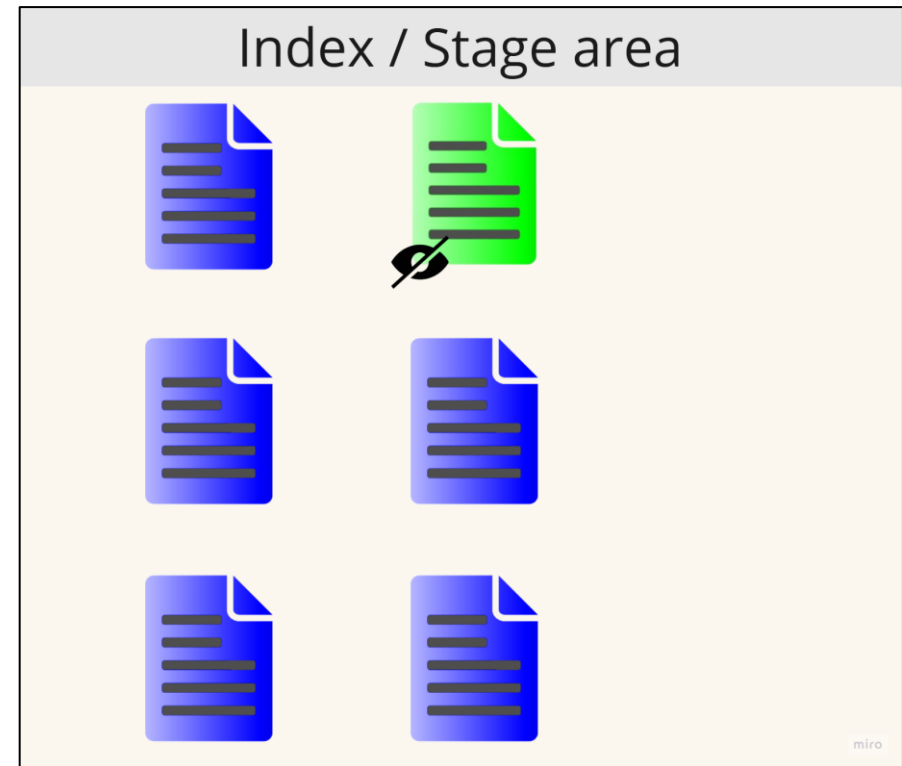
- ✓ Create new files with `echo` or `touch`
- ✓ Edit existent files (we use `code`)
- ✓ Restore work directory to a previous commit

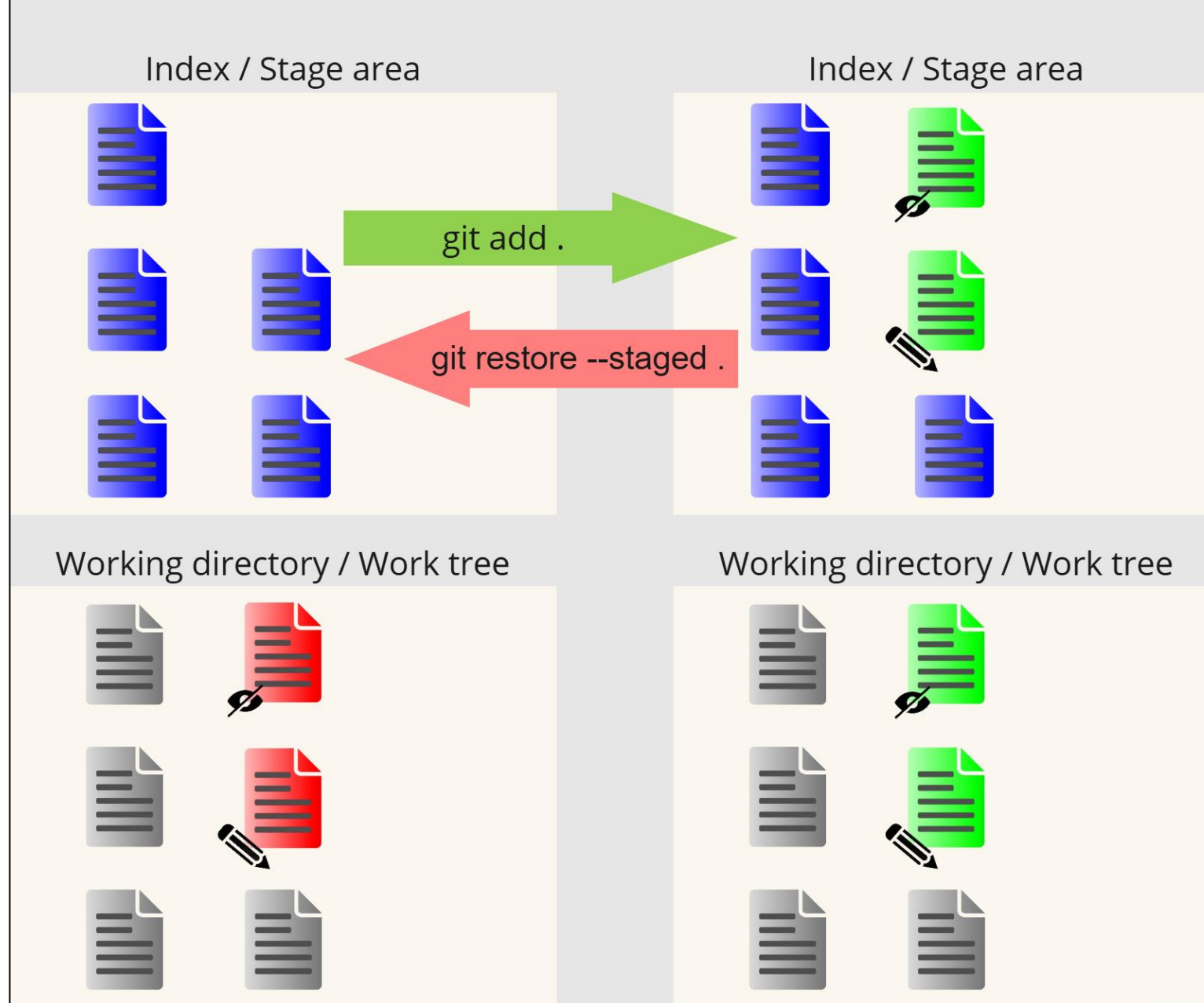




# Recap: Index

- ✓ Preview of a selection of changes we want to keep
- ✓ Add or discard changes
- ✓ Discard = restore to previous commit state





Previous Commit



Working directory



Staged files



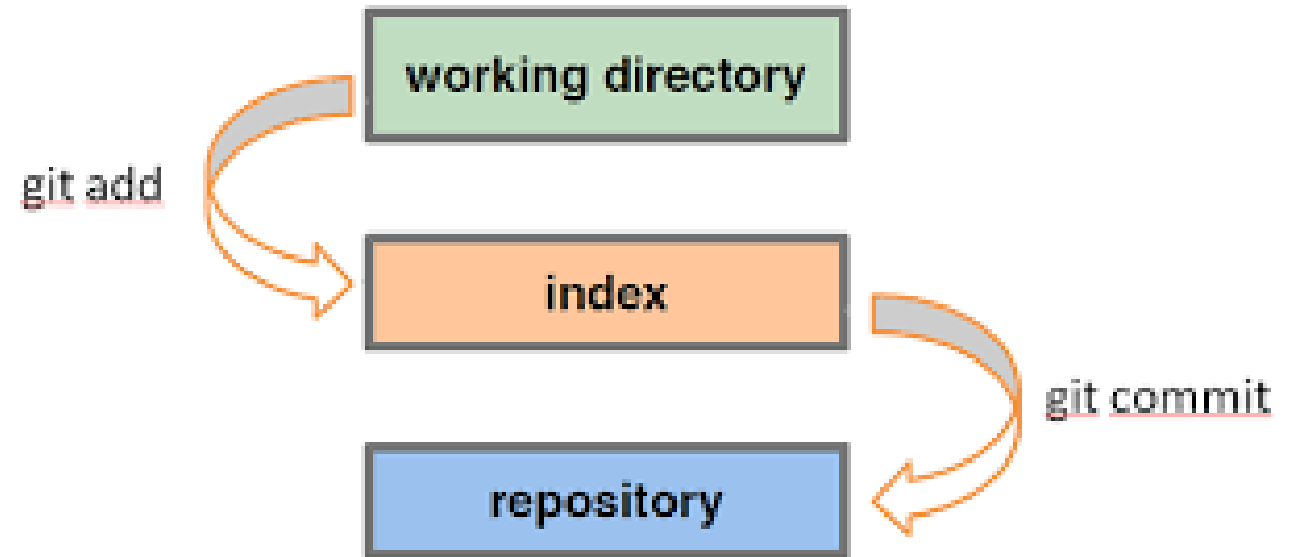
Committed files



miro

# Recap: Commits

- Snapshots of changes in a repository
- They include:
  - ✓ Username and email
  - ✓ Date and Commit ID
  - ✓ Message





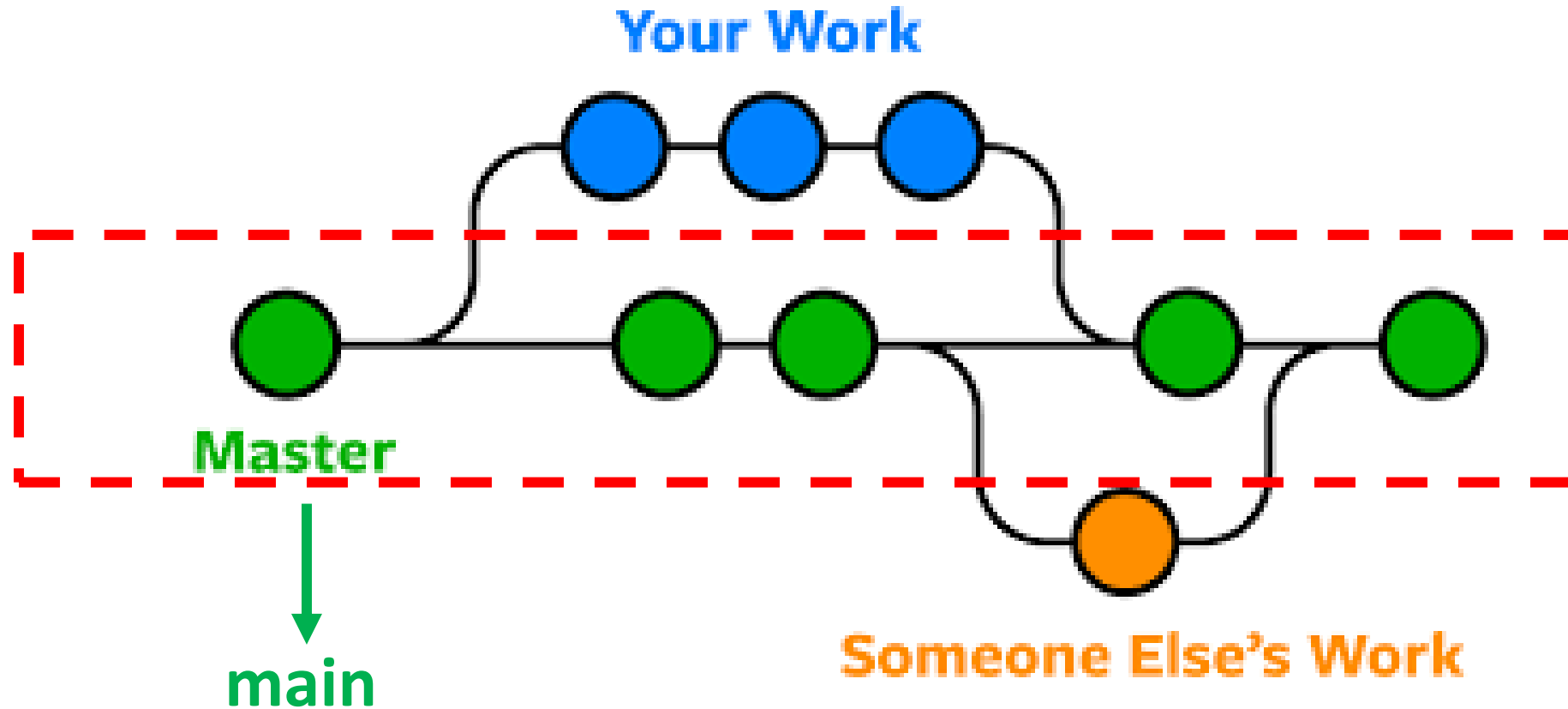
# Commits: Guidelines

Here are some IMPORTANT guidelines for a good commit message:

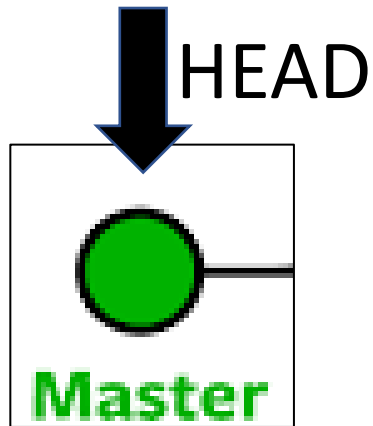
- Write your commit message subject in the imperative: "Fix bug" and not "Fixed bug" or "Fixes bug."
- Do not end the subject line with a period
- Separate subject from body with a blank line
- Capitalize the subject line and each paragraph
- Wrap lines at 72 characters
- Use the body to explain what and why you have done something



# Note: Single timeline (for now)

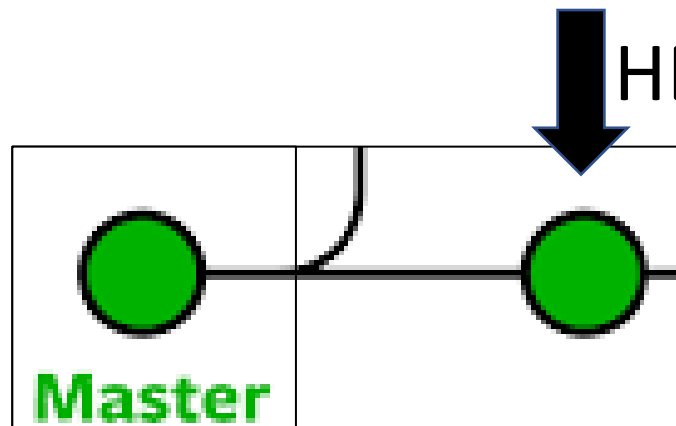


# Time traveling: HEAD



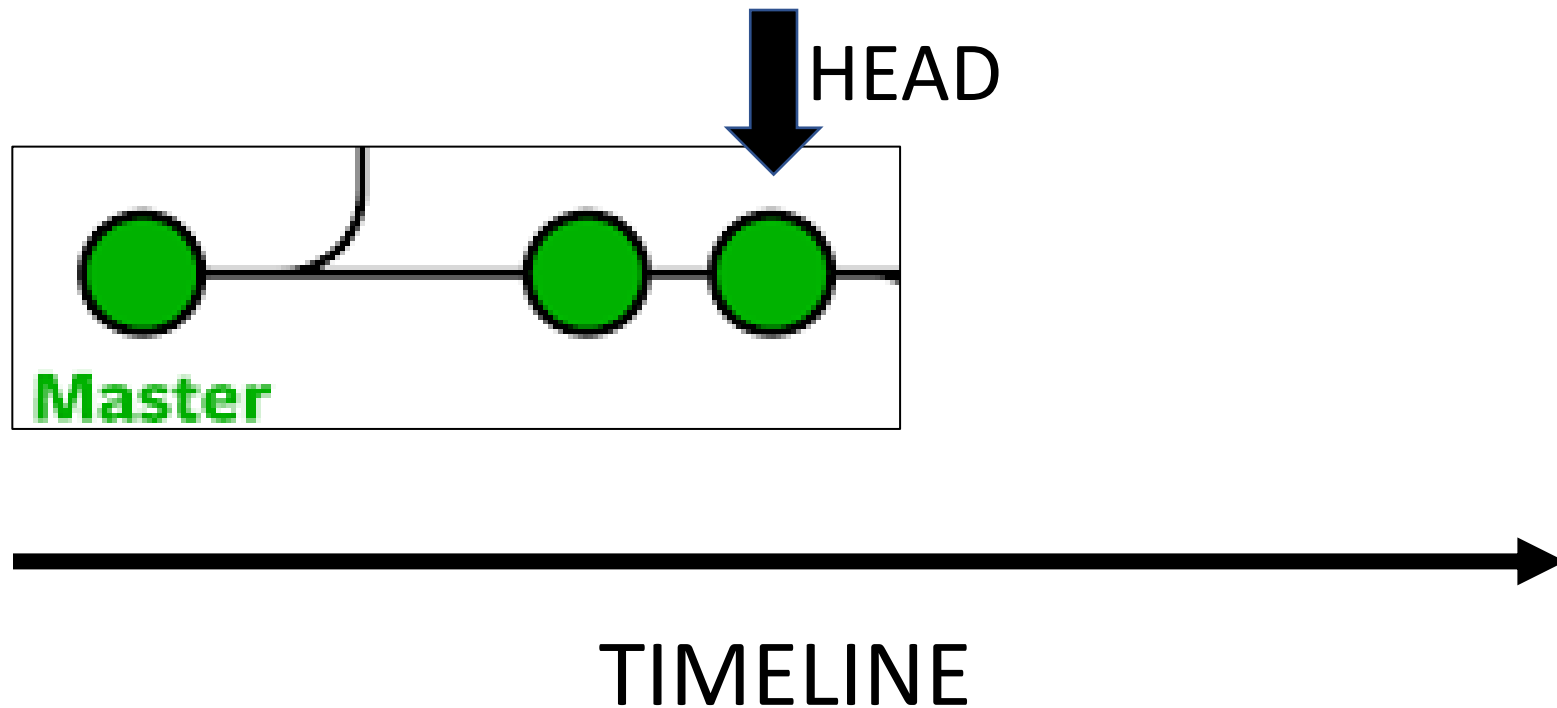
- A reference to a commit
- Commit we are pointing to

# Time traveling : HEAD

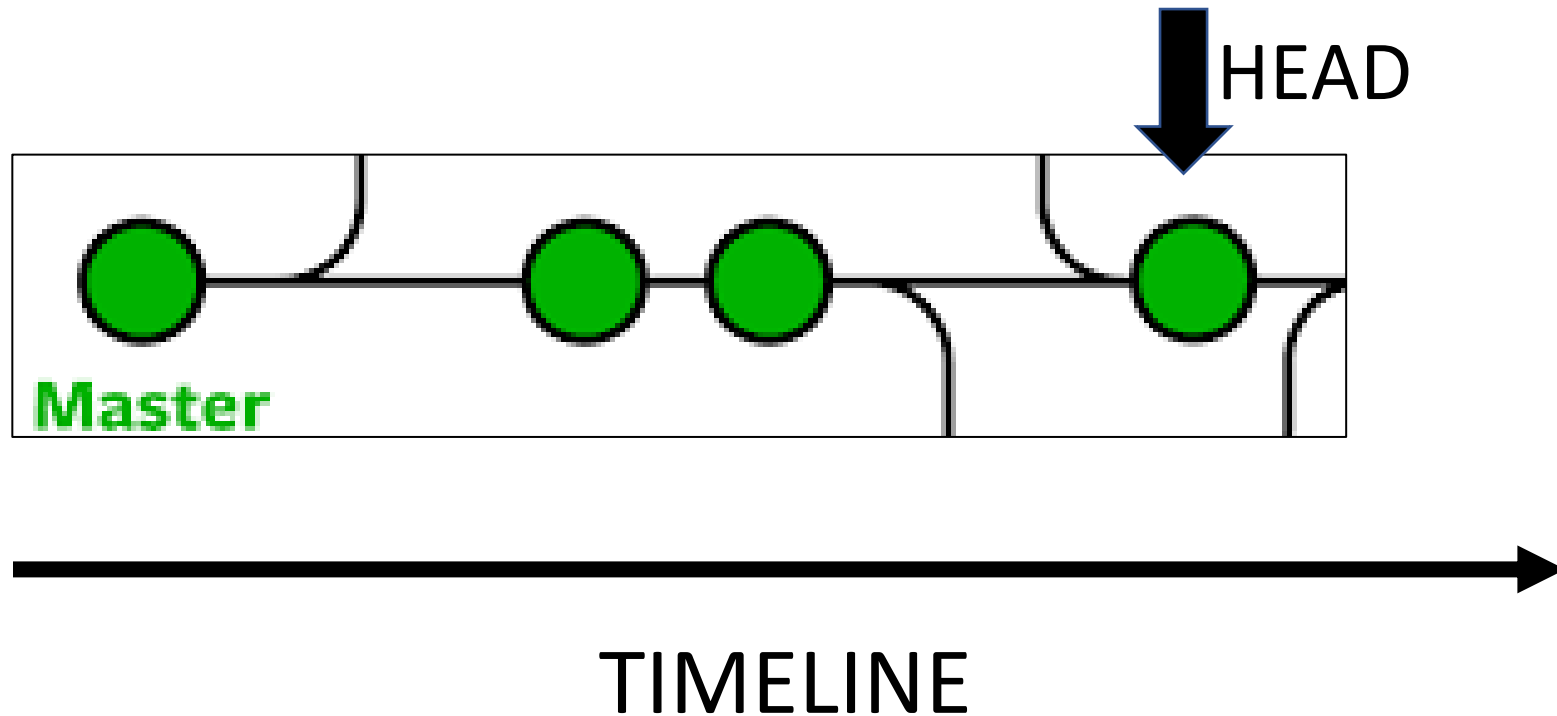


- Follows us as we commit
- Usually in the tip of the branch

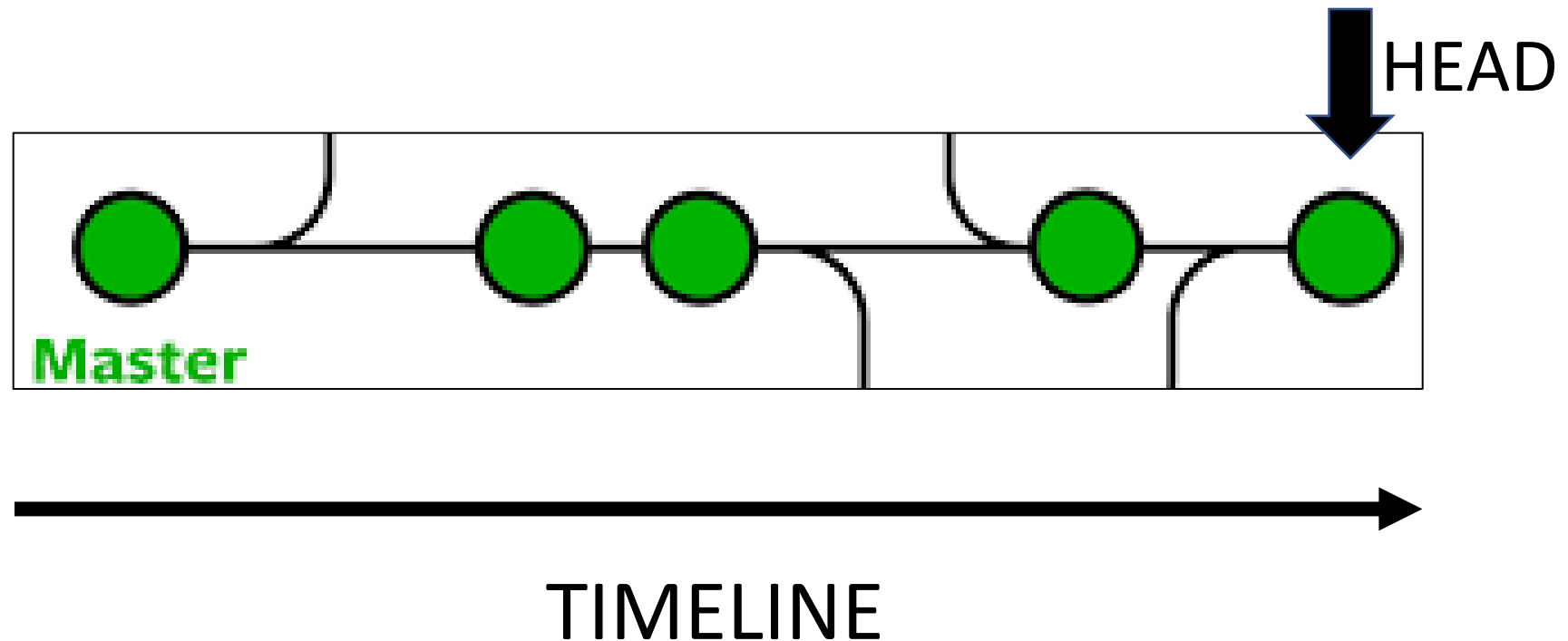
# Time traveling : HEAD



# Time traveling : HEAD

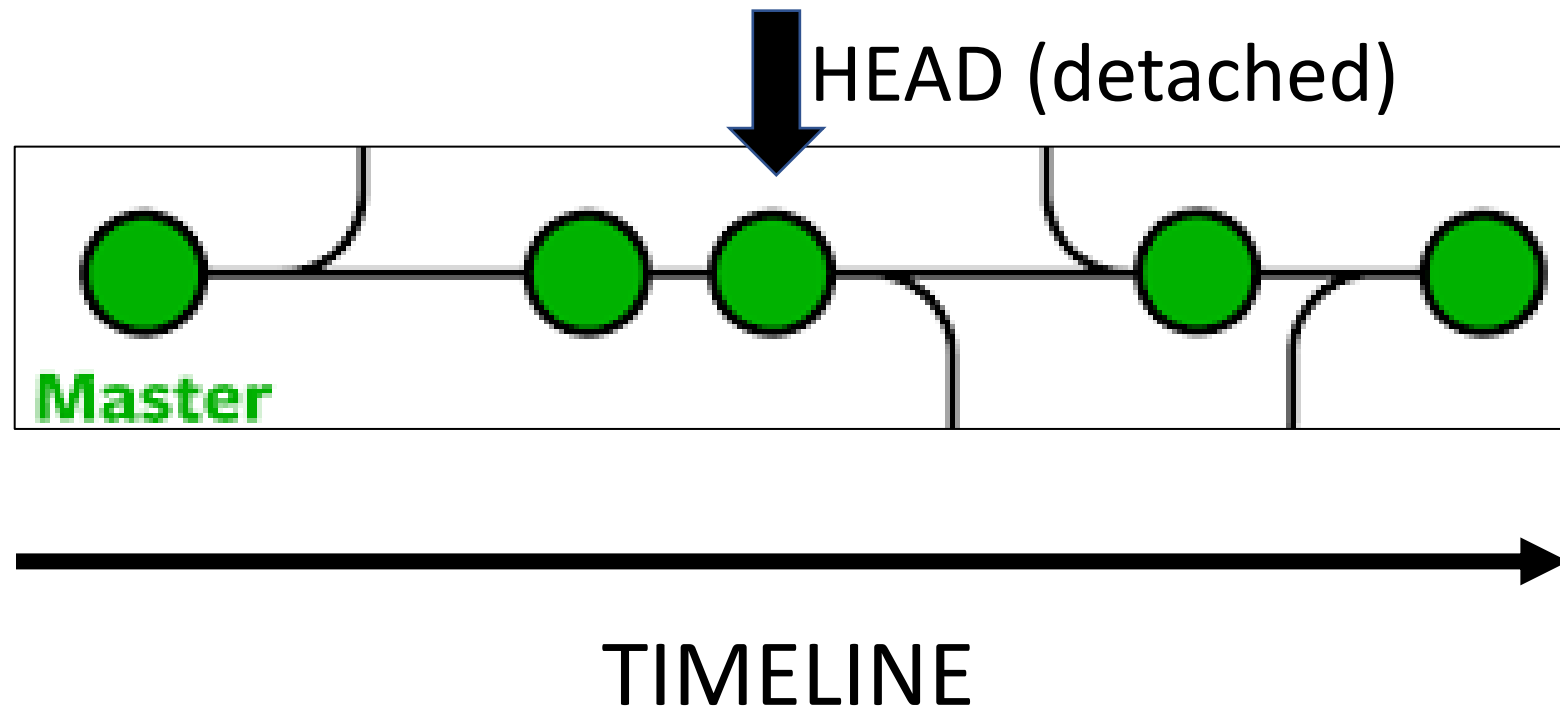


# Time traveling : HEAD



# Time traveling : HEAD

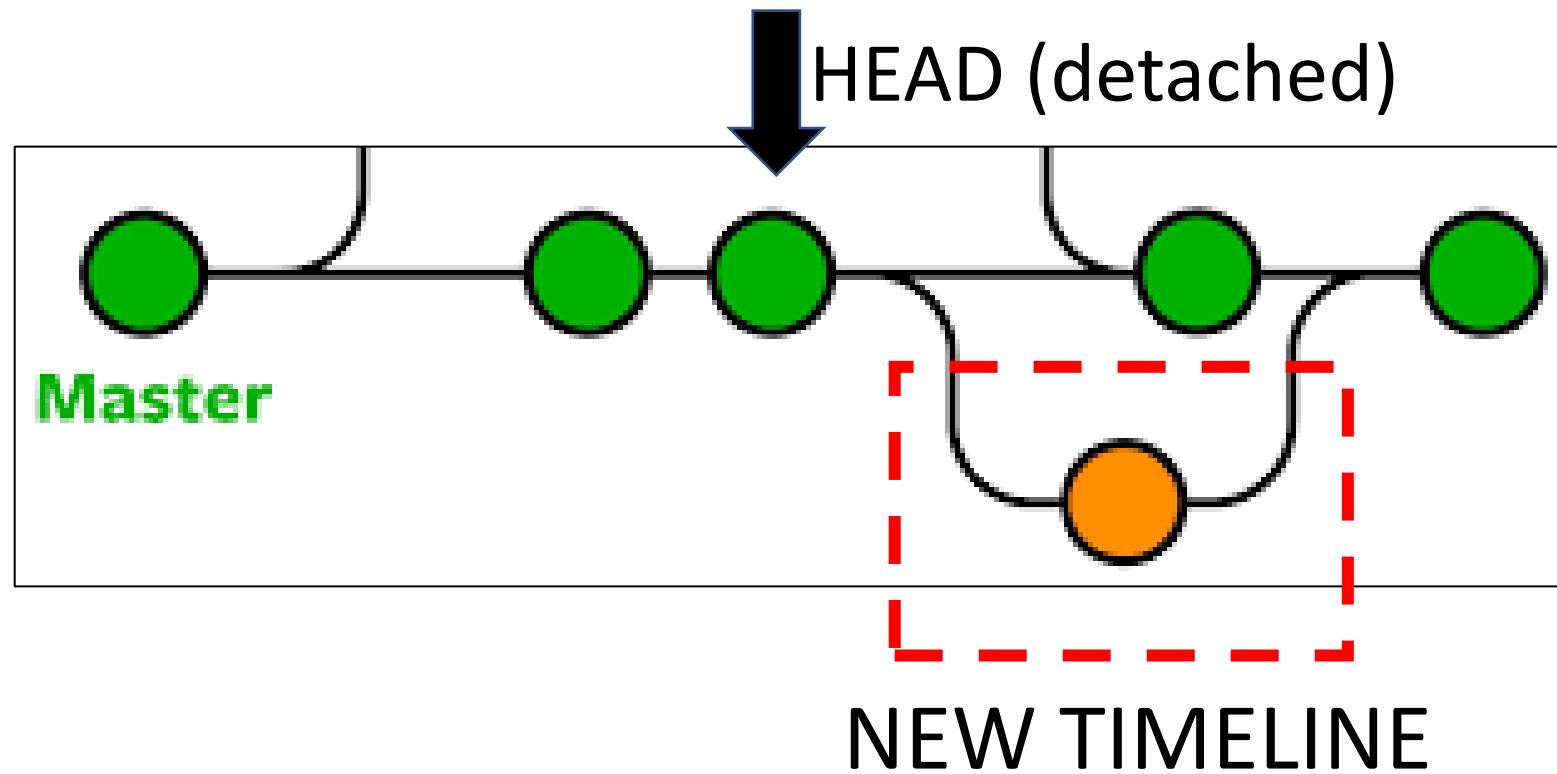
- We can move to a previous commit (detached HEAD)





# Time traveling : HEAD

- We can move to a previous commit (detached HEAD)



# Navigate and compare

- git checkout to move HEAD
- git diff to compare



# Ignore files

- .gitignore file
- GitHub provides us presets



# TODO: Practice

- ✓ Define commits
- ✓ Navigate commits
- ✓ Compare commits
- ✓ Ignore files

