

# Introduction to Git

Database Systems  
DataLab, CS, NTHU  
Spring, 2021

# Outline

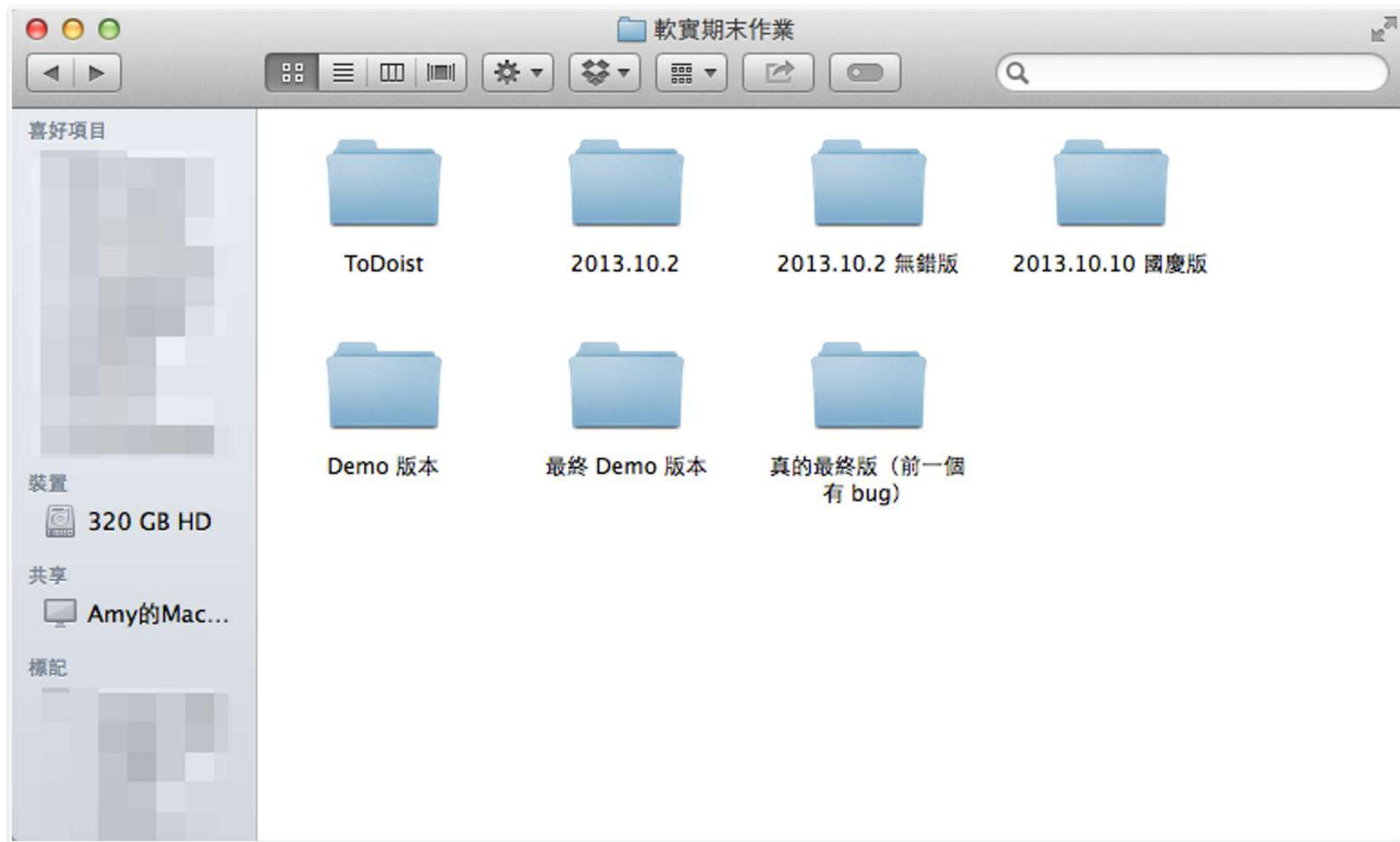
- Version control system
- Git basics
- Git branch
- Remote repository

# Outline

- Version control system
- Git basics
- Git branch
- Remote repository

# Why Version Control ?

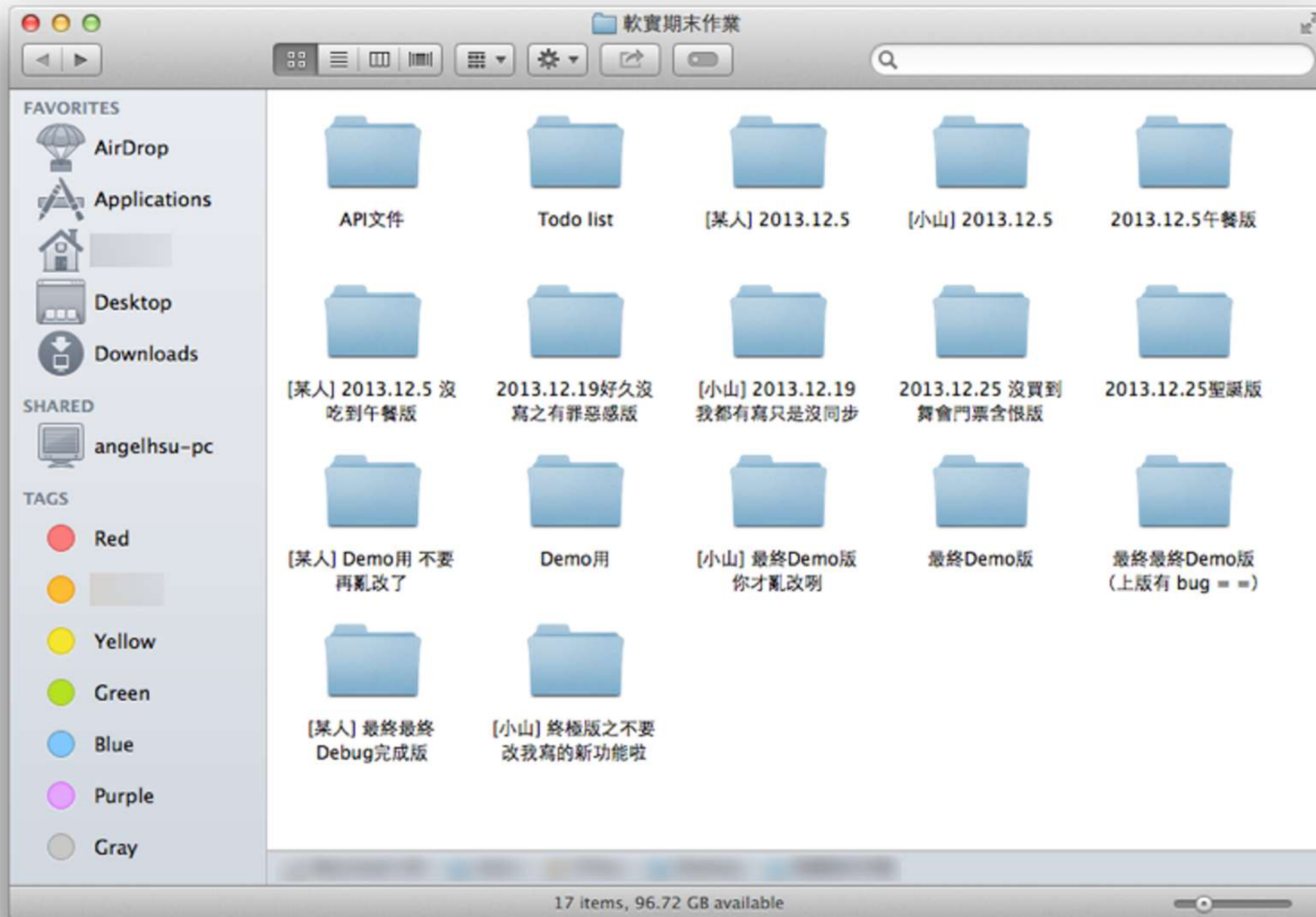
# Students' VCS



# How to work with others?



# Dropbox VCS in Reality



# Version Control System

- Store the projects, keep your **revision history**
- **Synchronization** between modifications made by different developers



# Outline

- Version control system
- **Git basics**
- Git branch
- Remote repository

# Git

- Git is a version control system which is
  - Fast
  - Easy to use
  - Distributed
  - Able to handle large project  
(ex. Linux Kernel 27.8 million lines)
- A git repository is a mini database that tracks your files

# Installation

- Please check this link
  - <http://git-scm.com/book/en/Getting-Started-Installing-Git>

# Configuration

- Modify `~/.gitconfig`
- Or, type in following commands

```
git config --global user.name "your name"
```

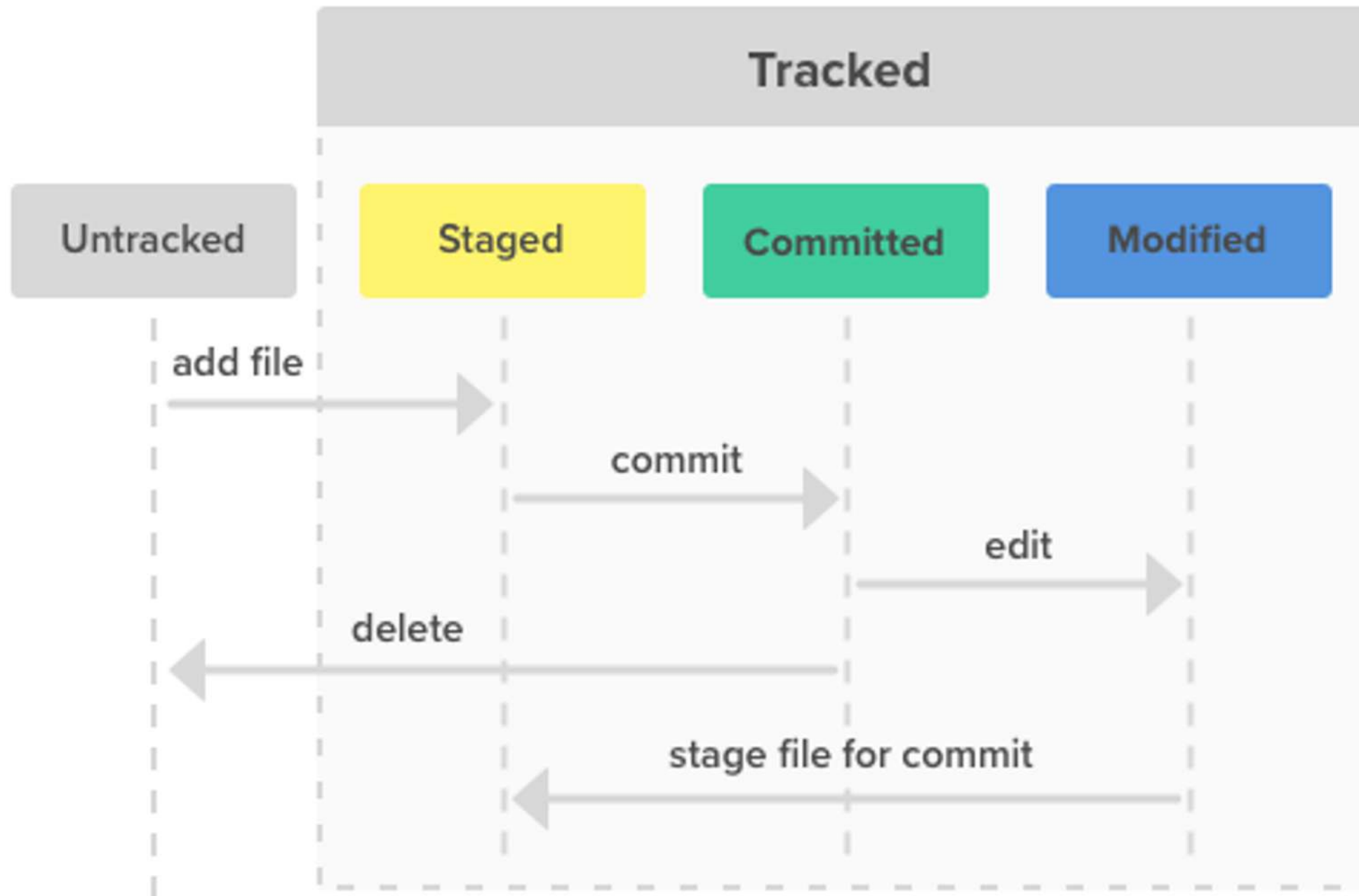
```
git config --global user.email "your@email.com"
```

\* For more information, please refer this [link](#).

# Creating a new Repository

- Two ways to create a repository
  - Initializing a Repository in an Existing Directory  
`git init`
  - Cloning an Existing Repository
    - We will talk about it later
- The repository information will be stored in the `.git` directory

# Committing A Version



# Committing A Version

- Staging (adding) a file  
`git add [file name]`

- Staging all files in the current directory  
`git add -A`

- Committing  
`git commit -m "[message]"`

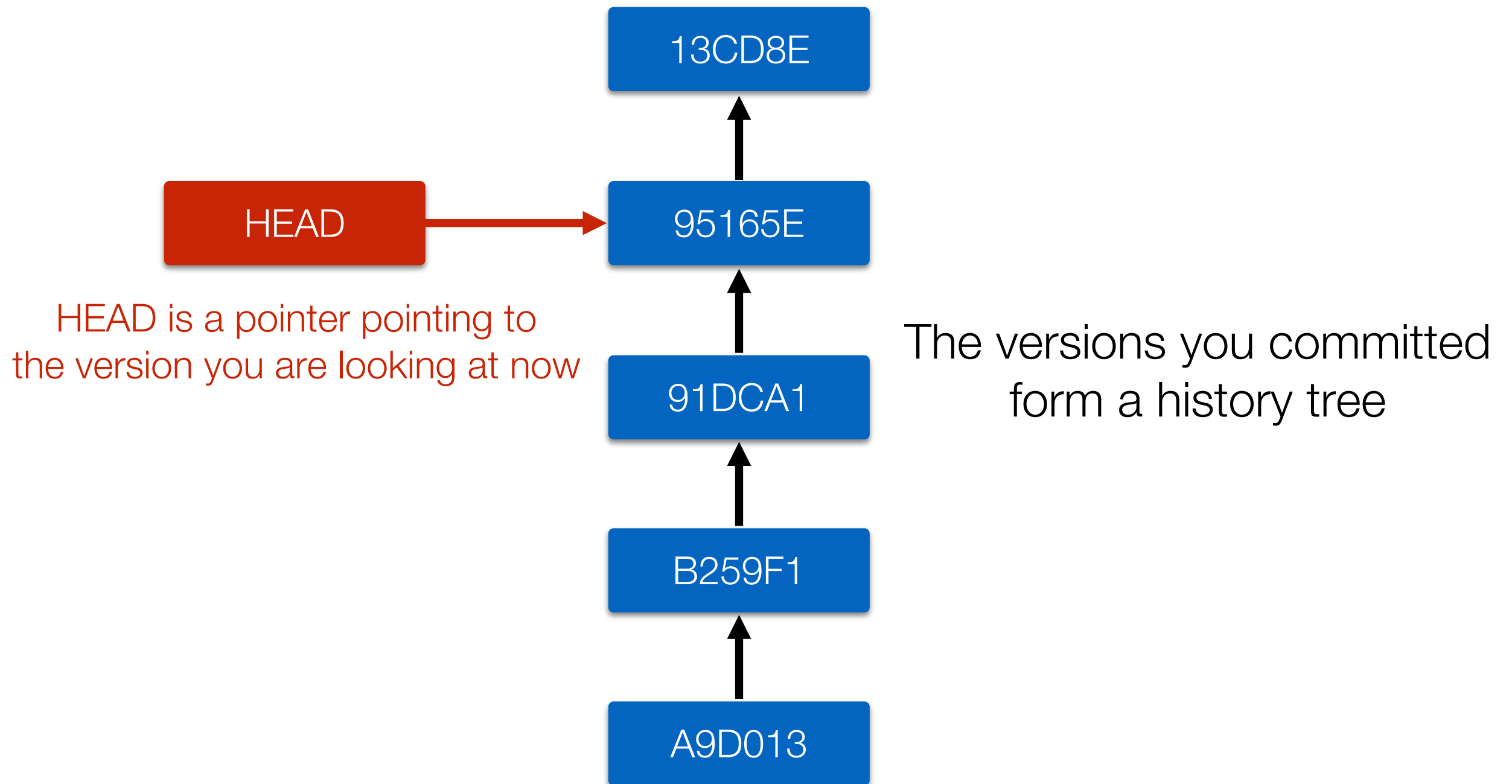
# Status

- Checking the current status and the current branch

`git status`



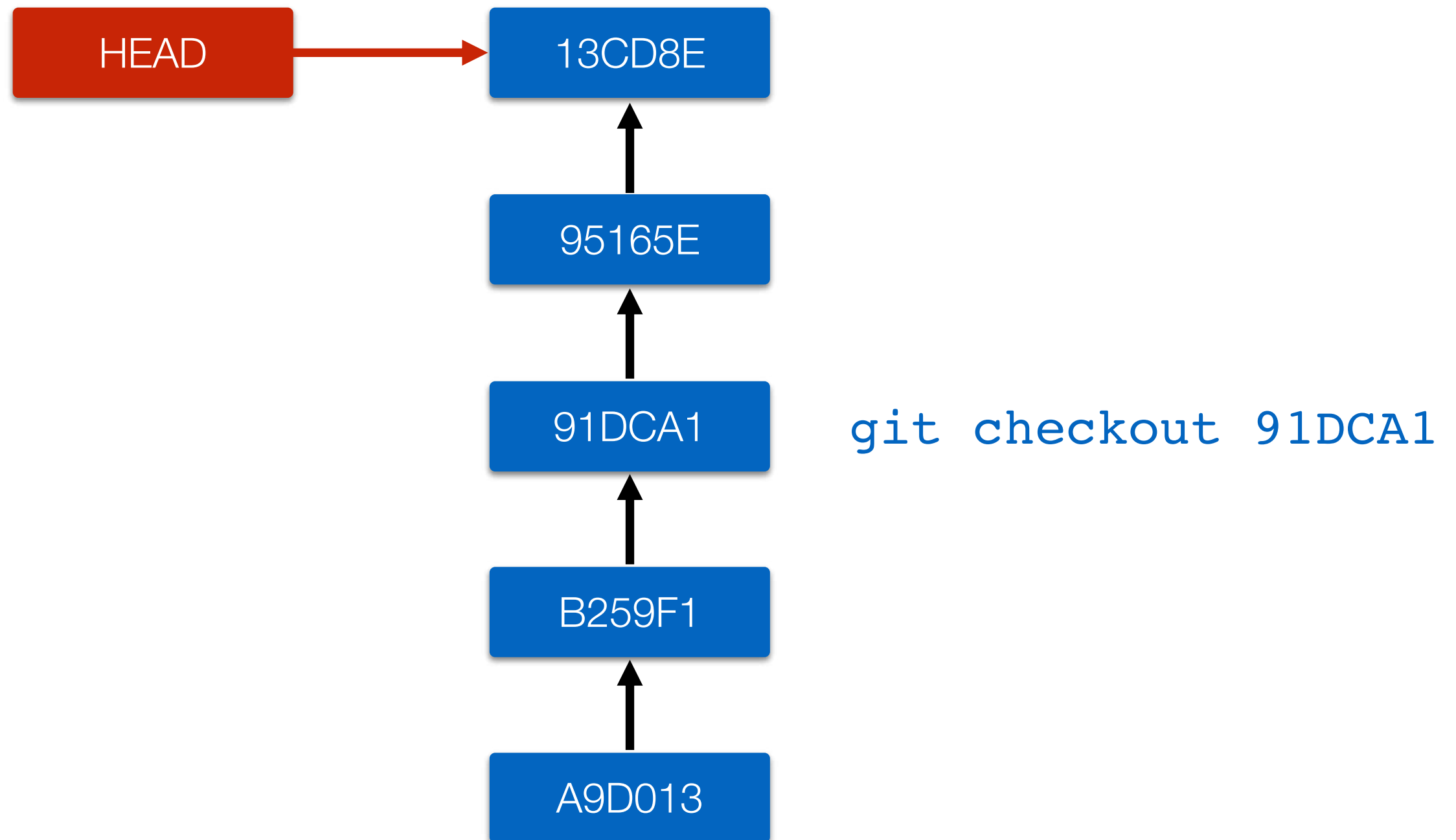
# A History Tree



# Logs

- Listing the log  
`git log`
- Listing each log in one line  
`git log --oneline`

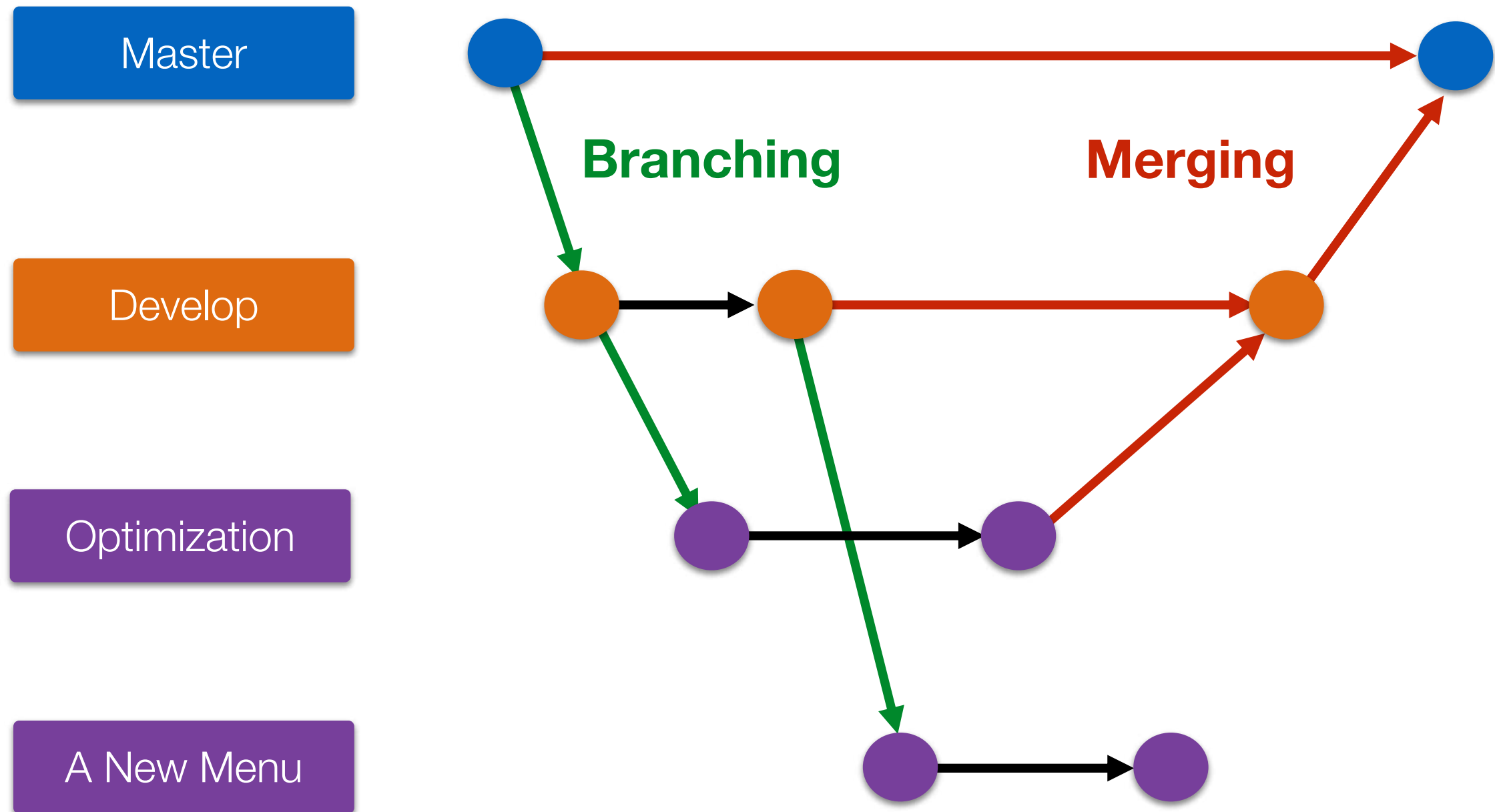
# Checking Out A Version



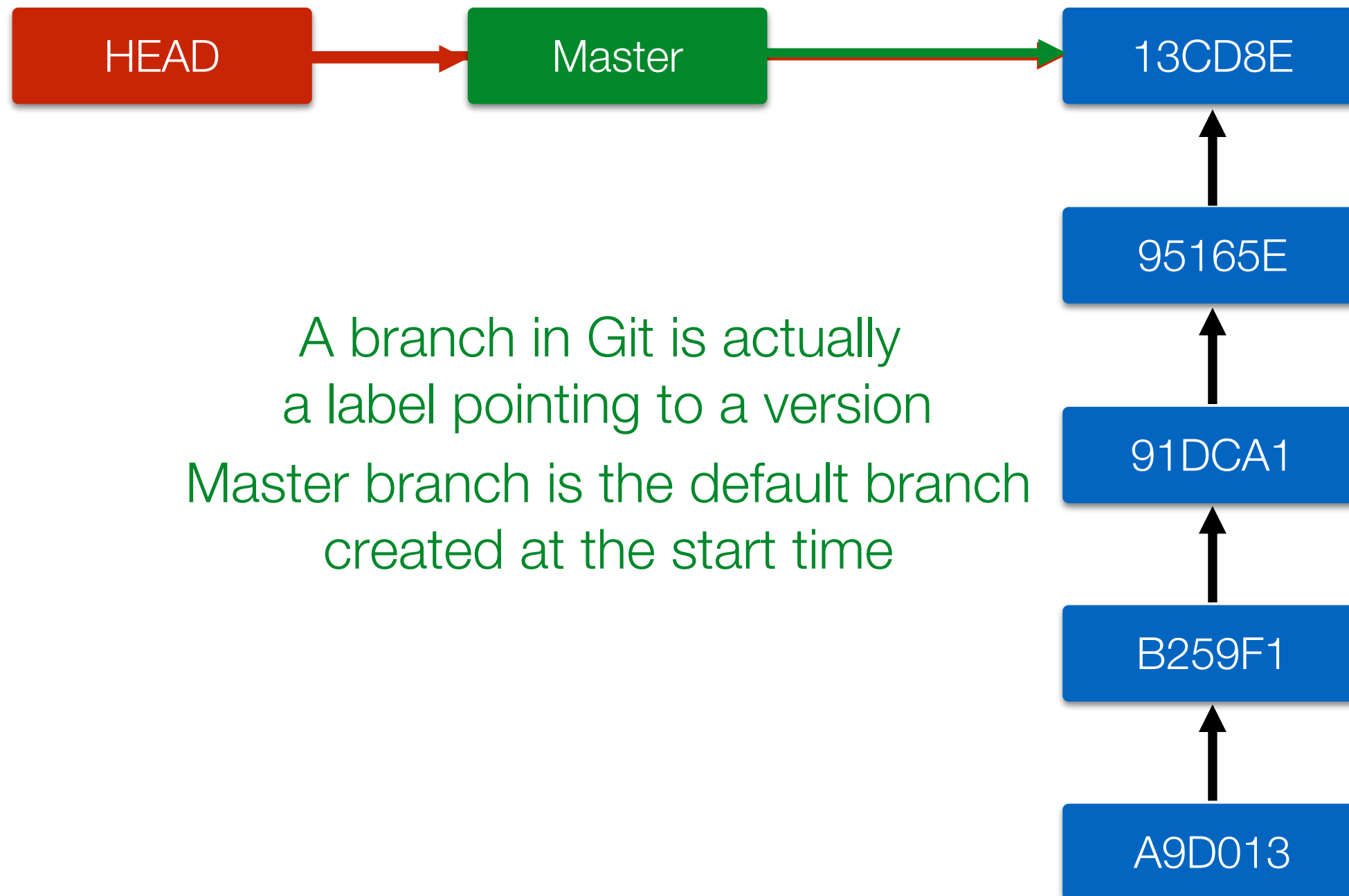
# Outline

- Version control system
- Git basics
- **Git branch**
- Remote repository

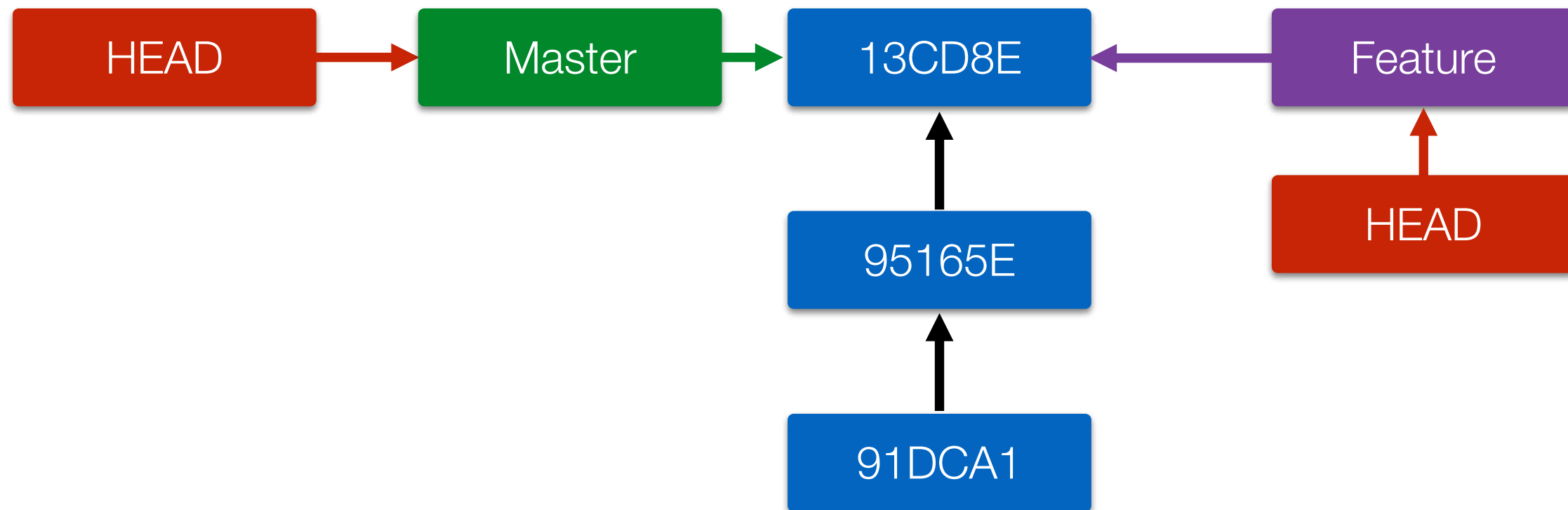
# Branches



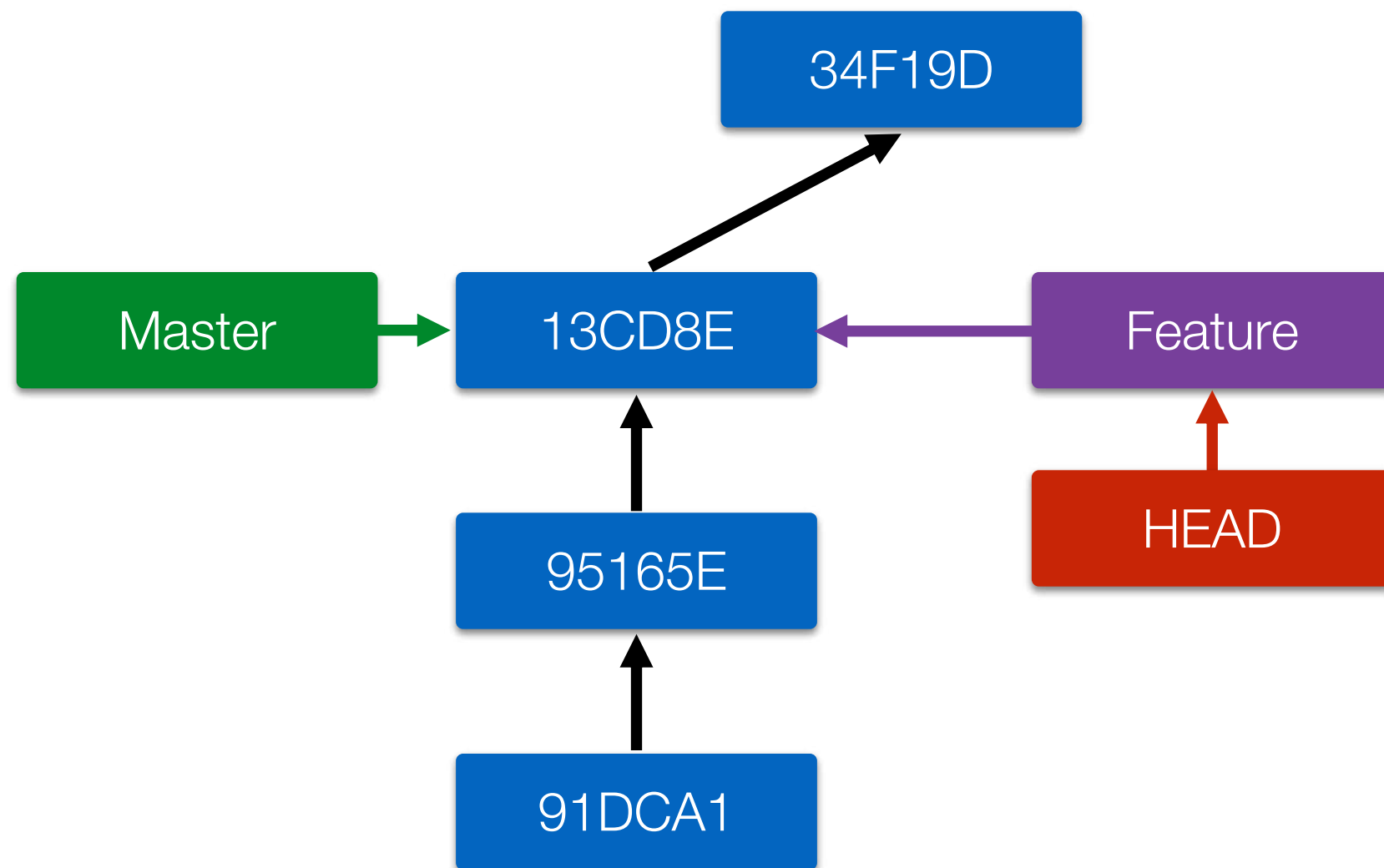
# The Master Branch



# Branching

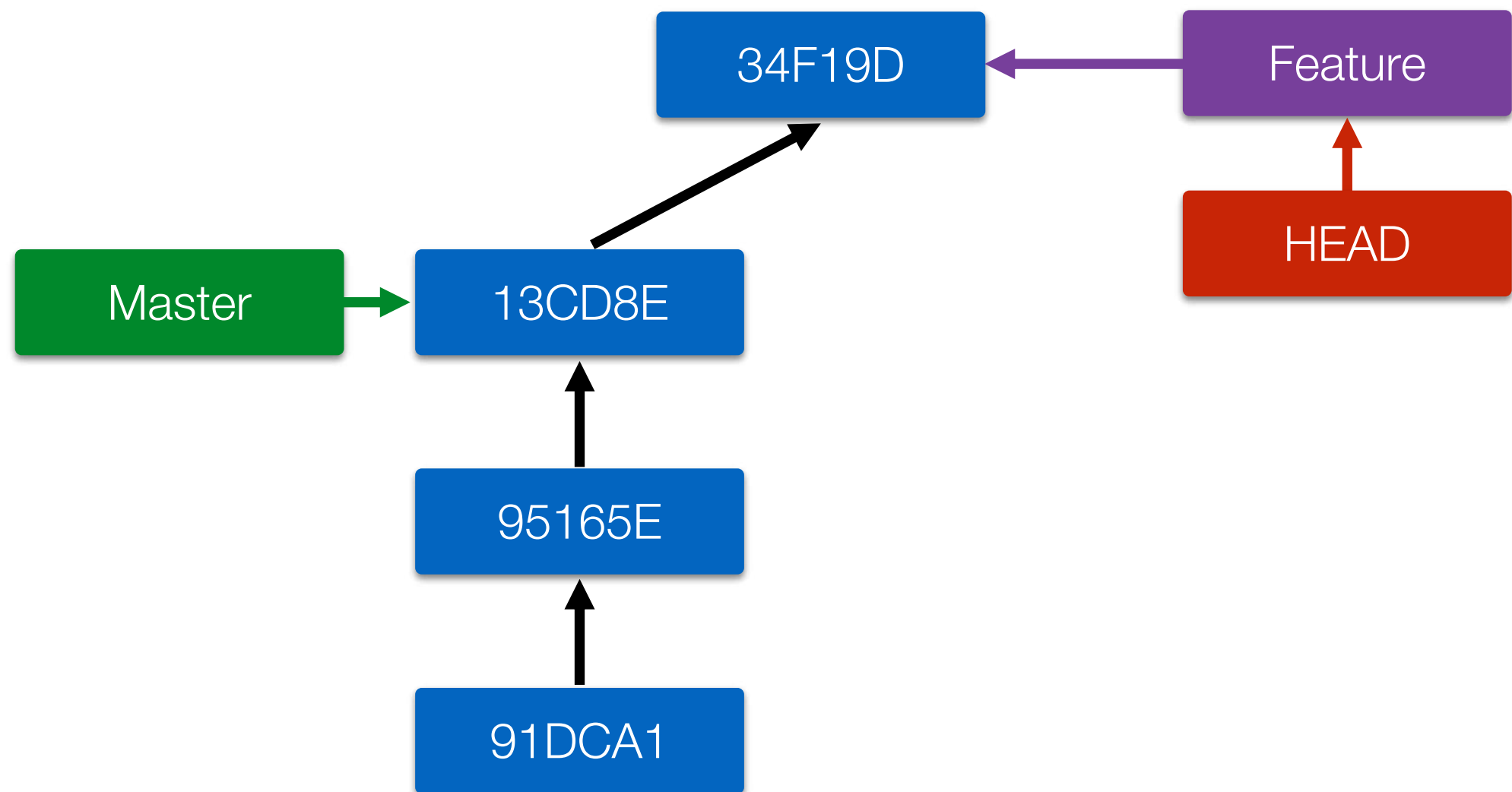


# Branching

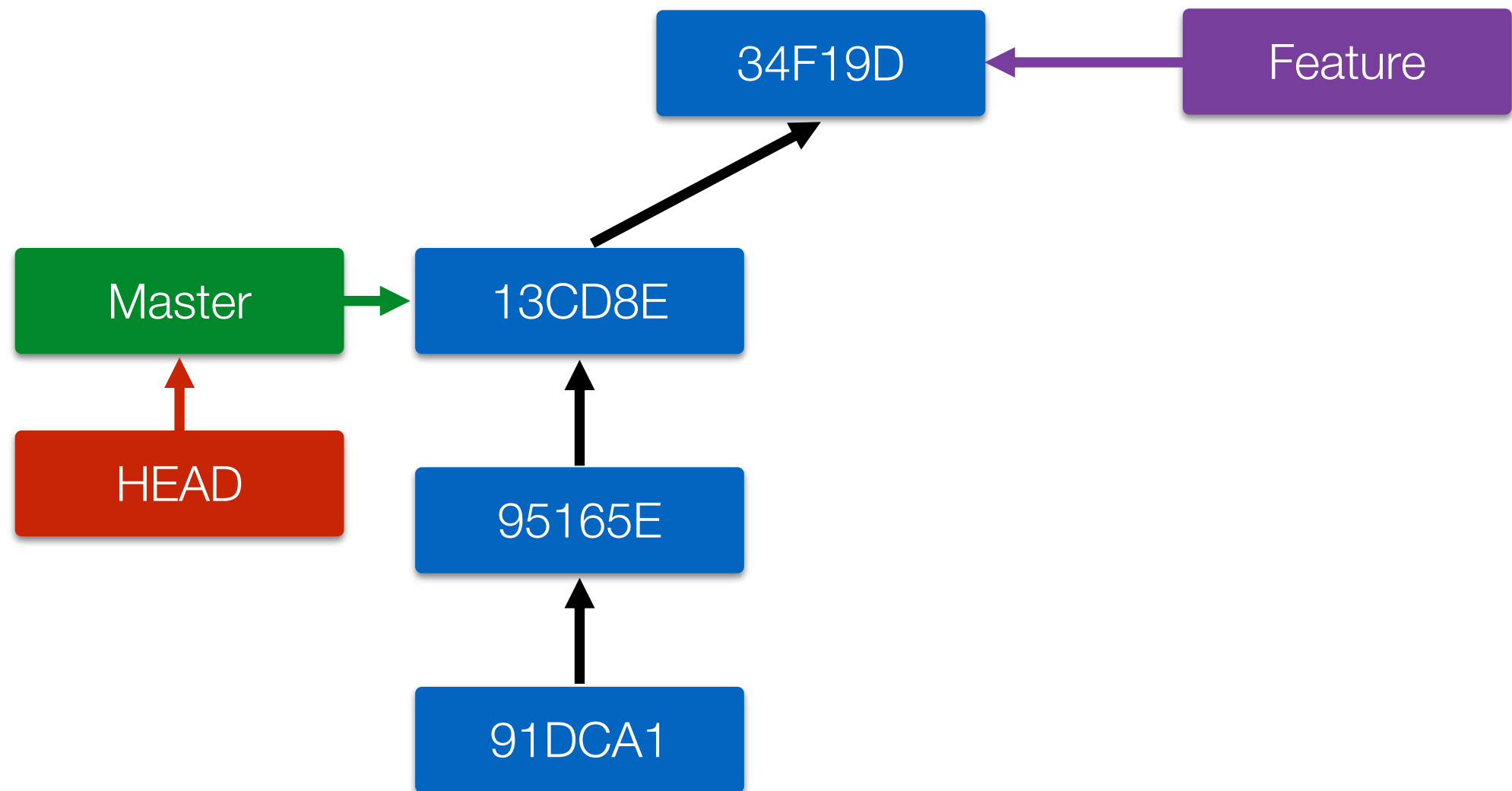




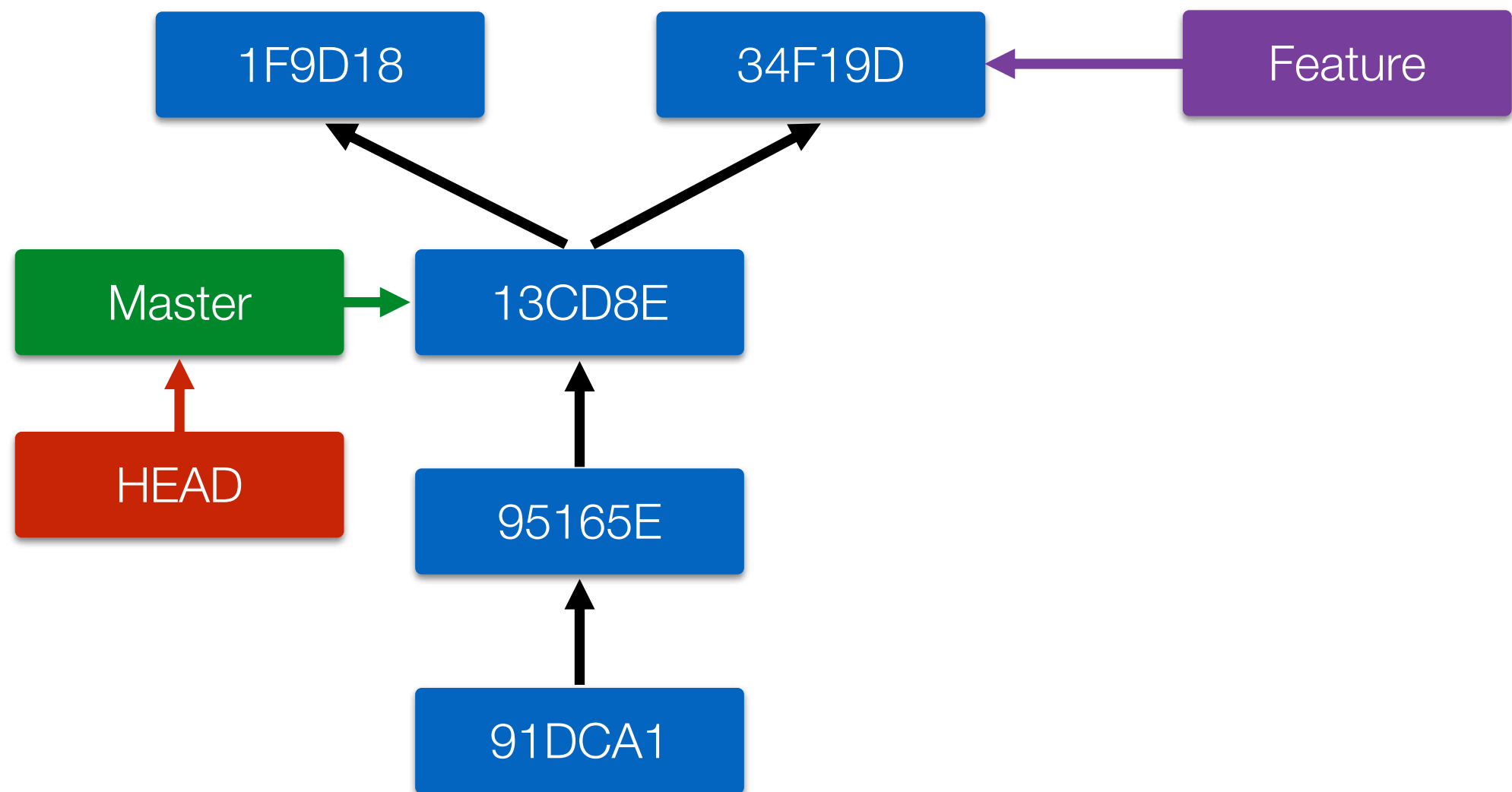
# Branching



# Branching



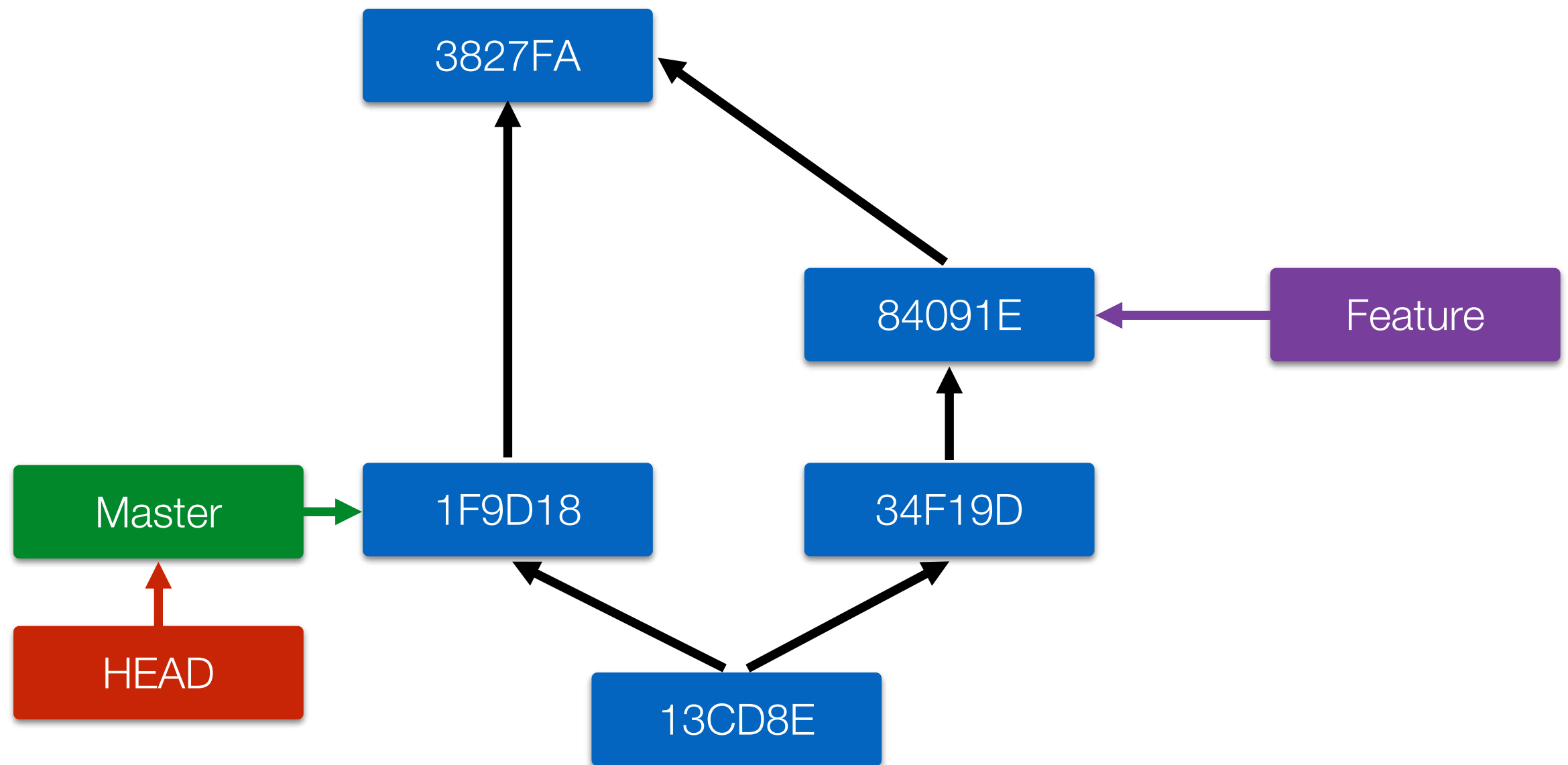
# Branching



# Git Branching

- Creating a new branch (label)  
`git branch [branch name]`
- Checking out the branch (move the HEAD)  
`git checkout [branch name]`
- Combining the above commands (create & checkout)  
`git checkout -b [branch name]`

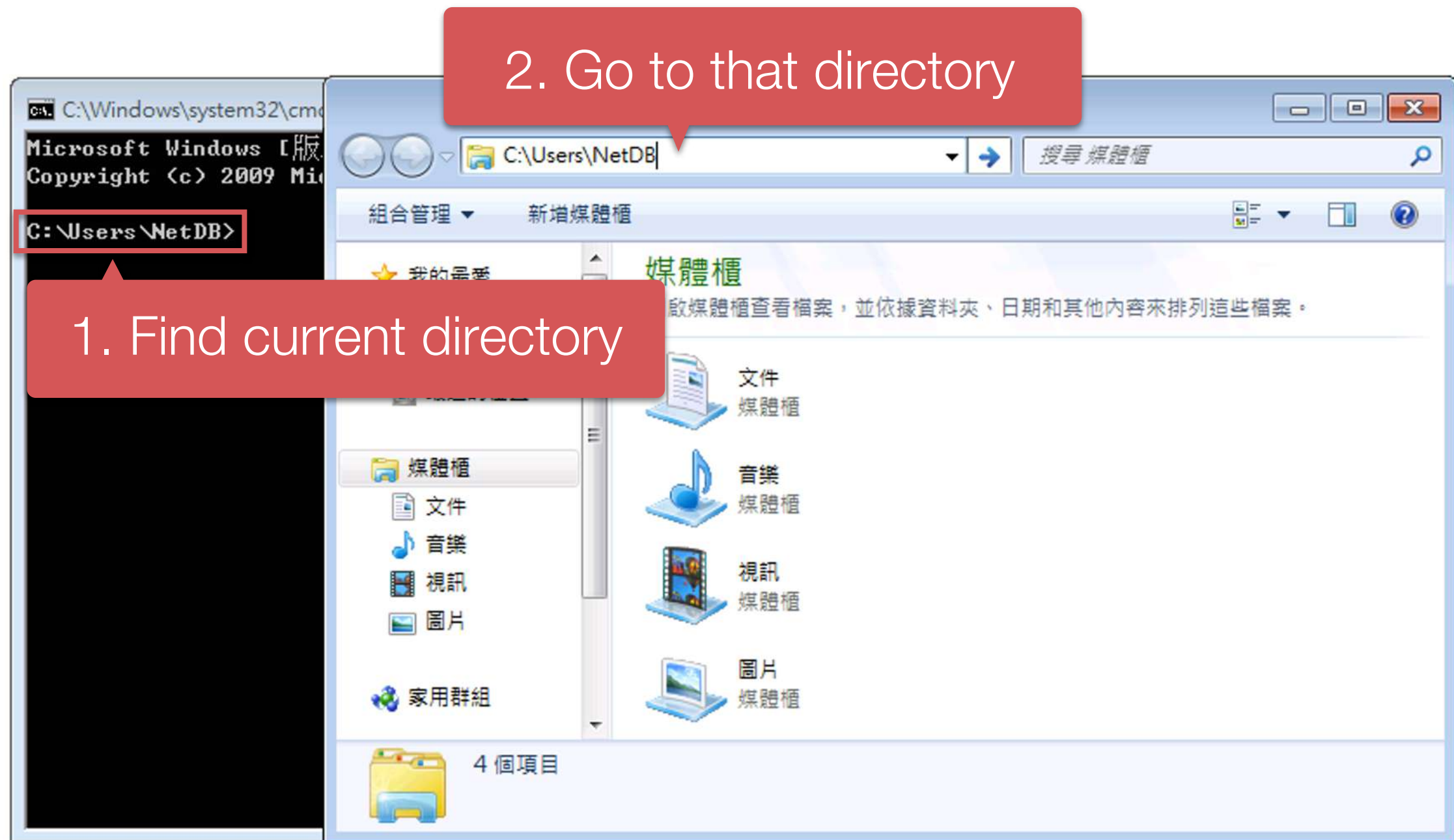
# Merging



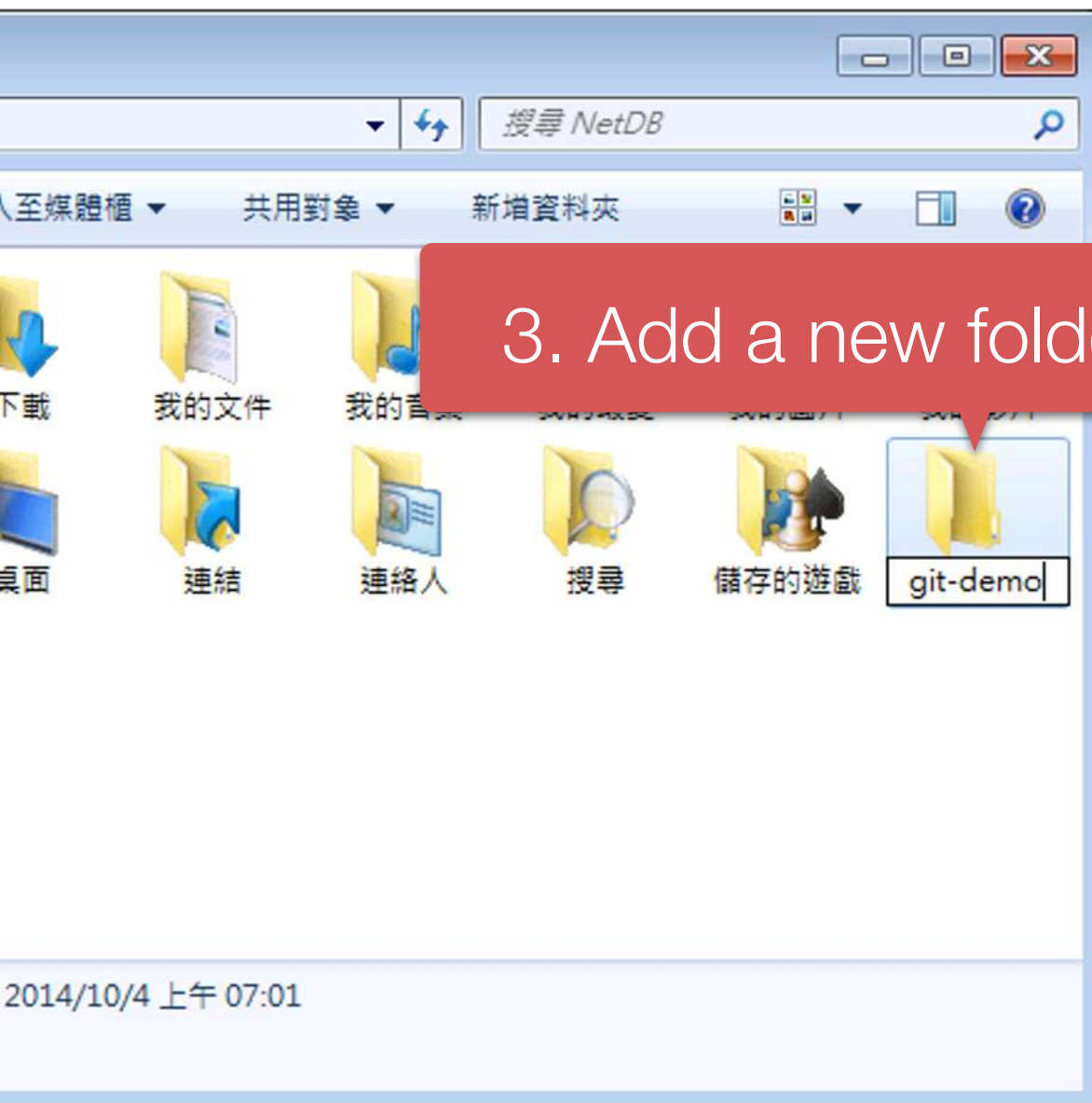
# Git Merging

- Merging Steps
  - Checking out a branch to merge  
`git checkout [branch 1 name]`
  - Merging another branch  
`git merge [branch 2 name]`

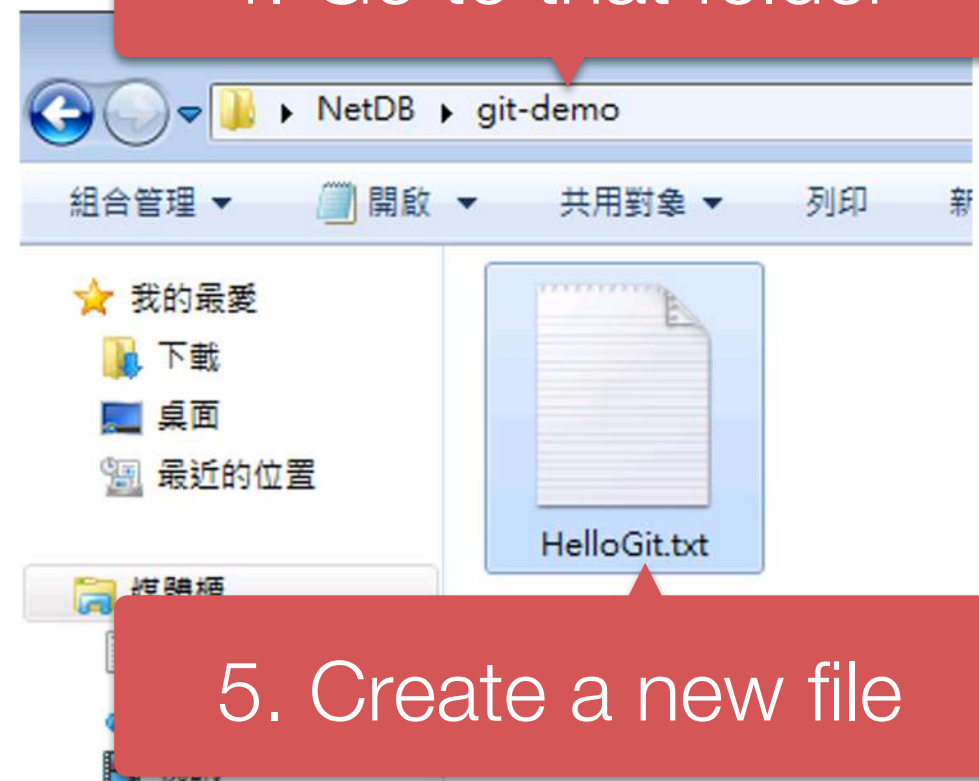
Try Git!



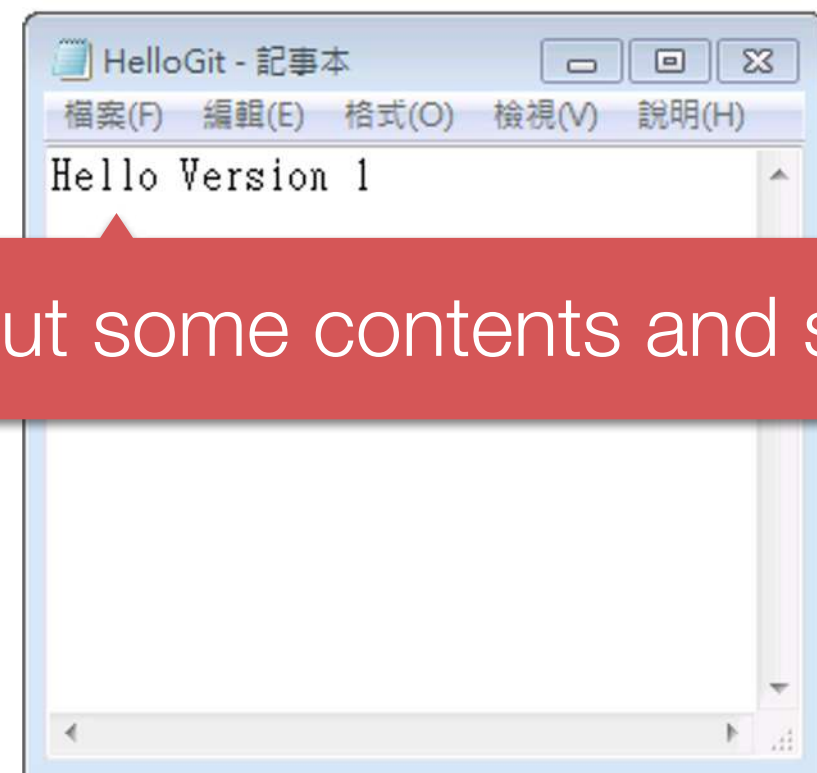




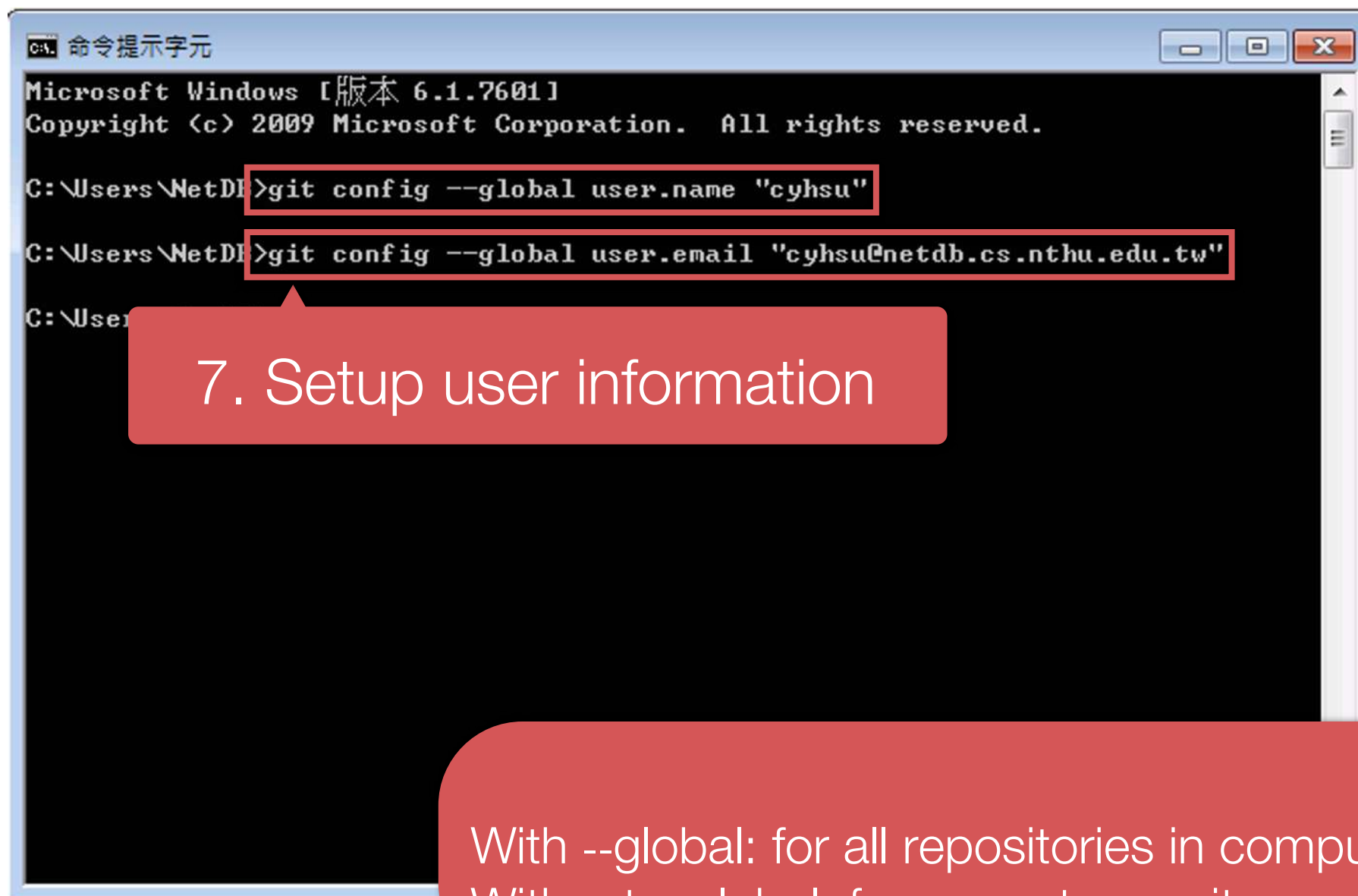
3. Add a new folder



5. Create a new file



6. Put some contents and save



A screenshot of a Windows Command Prompt window titled "命令提示字元". The window shows the following text:

```
Microsoft Windows [版本 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\NetDB>git config --global user.name "cyhsu"

C:\Users\NetDB>git config --global user.email "cyhsu@netdb.cs.nthu.edu.tw"

C:\User
```

Two red rectangular boxes highlight the commands: `git config --global user.name "cyhsu"` and `git config --global user.email "cyhsu@netdb.cs.nthu.edu.tw"`. A red arrow points from the first box to a red callout box below it.

## 7. Setup user information

With `--global`: for all repositories in computer  
Without `--global`: for current repository

```
$ git config --global user.name "name"
$ git config --global user.email "email"
```

```
命令提示字元
Microsoft Windows [版本 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\NetDB>cd git-demo
C:\Users\NetDB\git-demo>dir
磁碟區 C 中的磁碟是 WIN7
磁碟區序號: 187B-C5C9

C:\Users\NetDB\git-demo 的目錄
2014/10/04 上午 07:17    <DIR>          .
                ..
                15 HelloGit.txt
                15 位元組
                5,944 位元組可用

C:\Users\NetDB\git-demo>git init
Initialized empty Git repository in C:/Users/NetDB/git-demo/.git/

C:\Users\NetDB\git-demo>
```

```
$ cd git-demo    # go to git-demo directory
$ dir            # list the files
$ git init       # initialize a repository
```

```
命令提示字元
C:\Users\NetDB>cd git-demo

C:\Users\NetDB\git-demo>dir
磁碟區 C 中的磁碟是 WIN7
磁碟區序號: 187B-C5C9

C:\Users\NetDB\git-demo 的目錄
2014/10/04 上午 07:17 <DIR> .
2014/10/04 上午 07:17 <DIR> ..
2014/10/04 上午 07:16      15 HelloGit.txt
                1 個檔案      15 位元組

C:\Users\NetDB\git-demo>git add HelloGit.txt

C:\Users\NetDB\git-demo>git commit -m "version 1"
[master (root-commit) b302d9c] version 1
 1 file changed, 1 insertion(+)
 create mode 100644 HelloGit.txt

C:\Users\NetDB\git-demo>
```

11. Add HelloGit.txt to staging files

12. Commit your changes

# Add HelloGit.txt to staging files

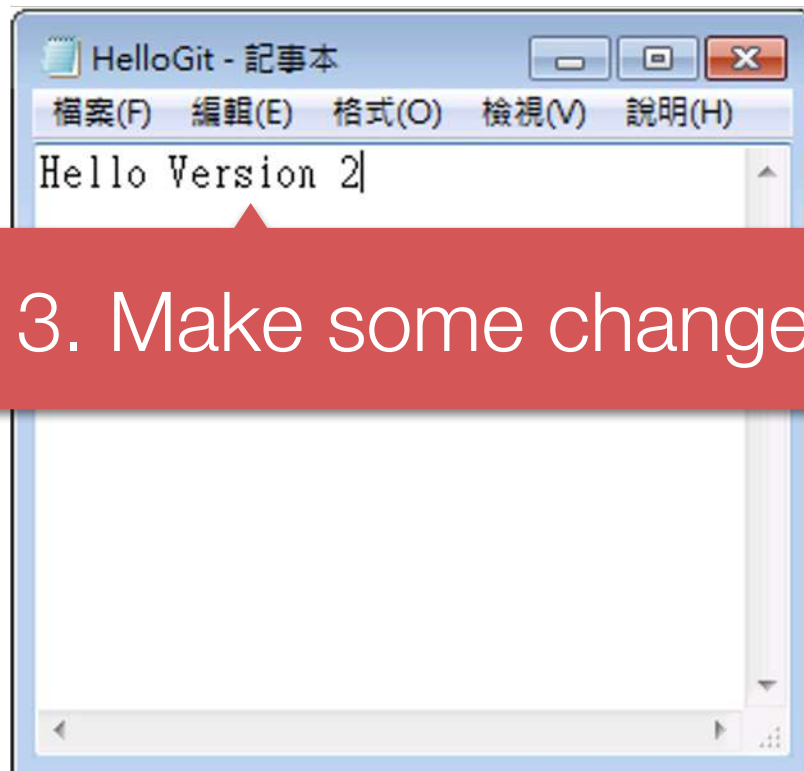
\$ git add HelloGit.txt

# Commit the changes to the repository

# where "version 1" is the commit message

\$ git commit -m "version 1"

13. Make some changes and save



14. Add it and commit again

```
C:\Users\NetDB\git-demo>git add HelloGit.txt  
C:\Users\NetDB\git-demo>git commit -m "version 2"  
[master e134c84] version 2  
1 file changed, 1 insertion(+), 1 deletion(-)  
  
C:\Users\NetDB\git-demo>
```

## 15. View your versions

Version ID

```
C:\Users\NetDB\git-demo>git log
commit e134c845df593f1451c4e9e6c874ddef6df42a76
Author: cyhsu <cyhsu@netdb.cs.nthu.edu.tw>
Date: Sat Oct 4 08:09:55 2014 +0800
```

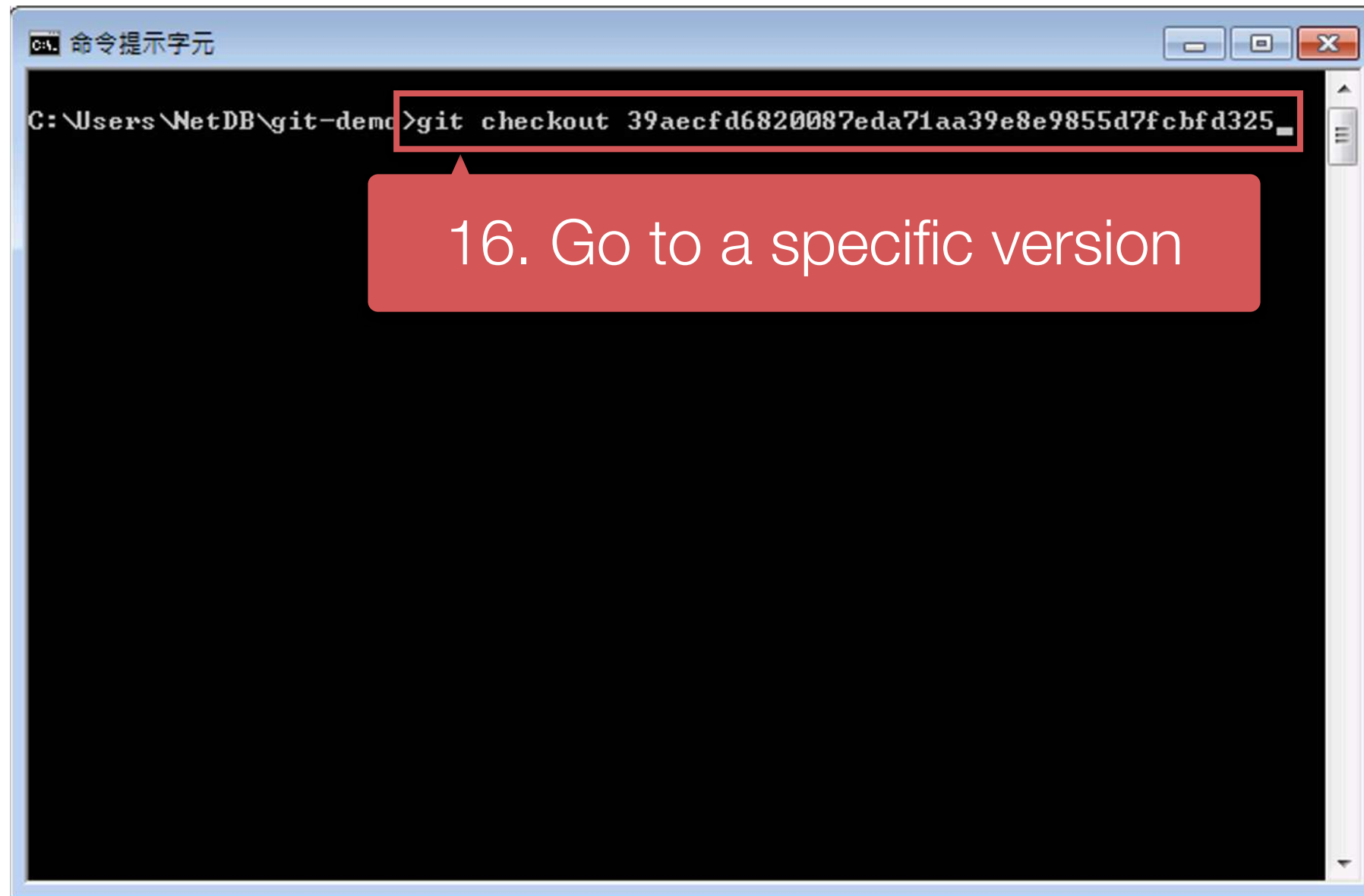
version 2

```
commit 39aecfd6820087eda71aa39e8e9855d7fcbfd325
Author: cyhsu <cyhsu@netdb.cs.nthu.edu.tw>
Date: Sat Oct 4 08:09:16 2014 +0800
```

version 1

Commit messages

```
# Show the versions you've created so far
$ git log
```



A screenshot of a Windows command prompt window. The title bar is light blue and contains the text '命令提示字元' (Command Prompt) and standard window controls. The command prompt shows the path 'C:\Users\NetDB\git-demo' followed by the command 'git checkout 39aecfd6820087eda71aa39e8e9855d7fcbfd325'. A red rectangular box highlights the command. A red callout box with a pointer to the command contains the text '16. Go to a specific version'.

```
C:\Users\NetDB\git-demo>git checkout 39aecfd6820087eda71aa39e8e9855d7fcbfd325
```

16. Go to a specific version

```
# Go to a specific version  
$ git checkout {version_id}
```



Version ID

```
C:\Users\NetDB\git-demo>git log --oneline
e134c84 version 2
39aecfd version 1

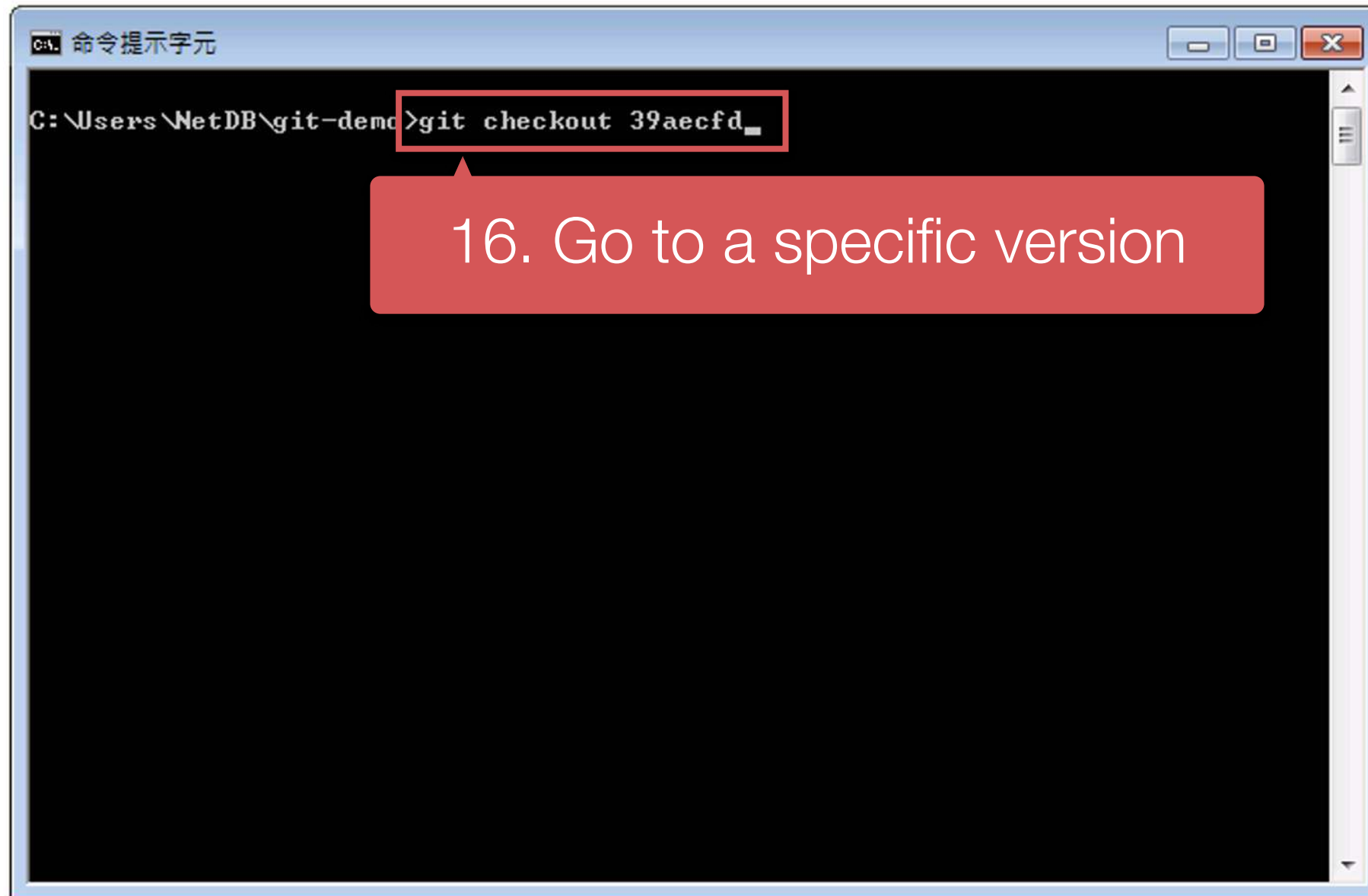
C:\Users\NetDB\git-demo>
```

15. Show versions with short version ID

56% shorter!

```
# Show versions with short version id
$ git log --oneline
```





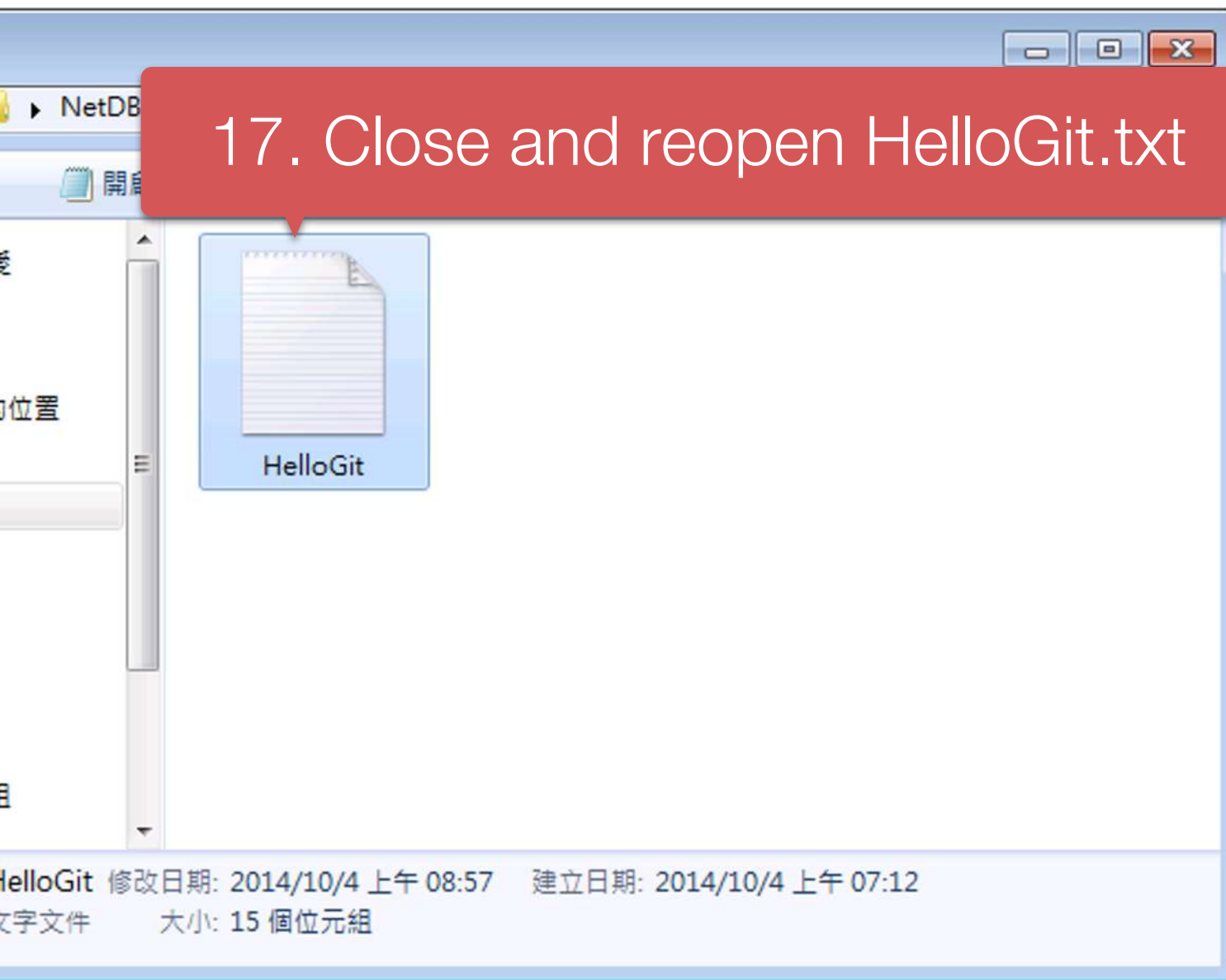
命令提示字元

```
C:\Users\NetDB\git-demo>git checkout 39aecfd_
```

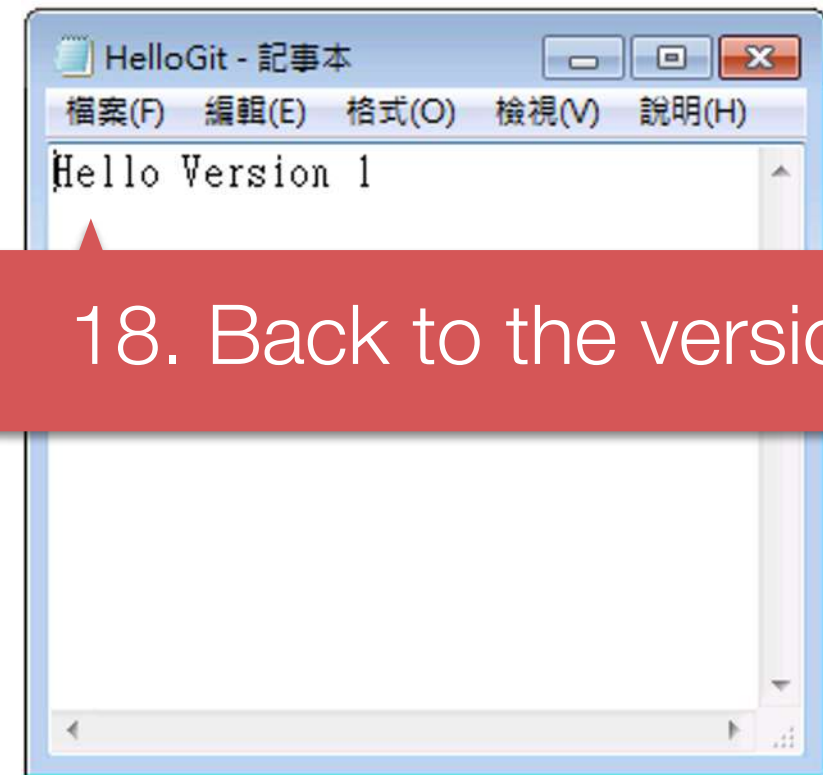
16. Go to a specific version

```
# Go to a specific version.  
# In fact, you only need to type  
# the first 5 characters.  
$ git checkout {short_version_id}
```

17. Close and reopen HelloGit.txt



18. Back to the version 1!



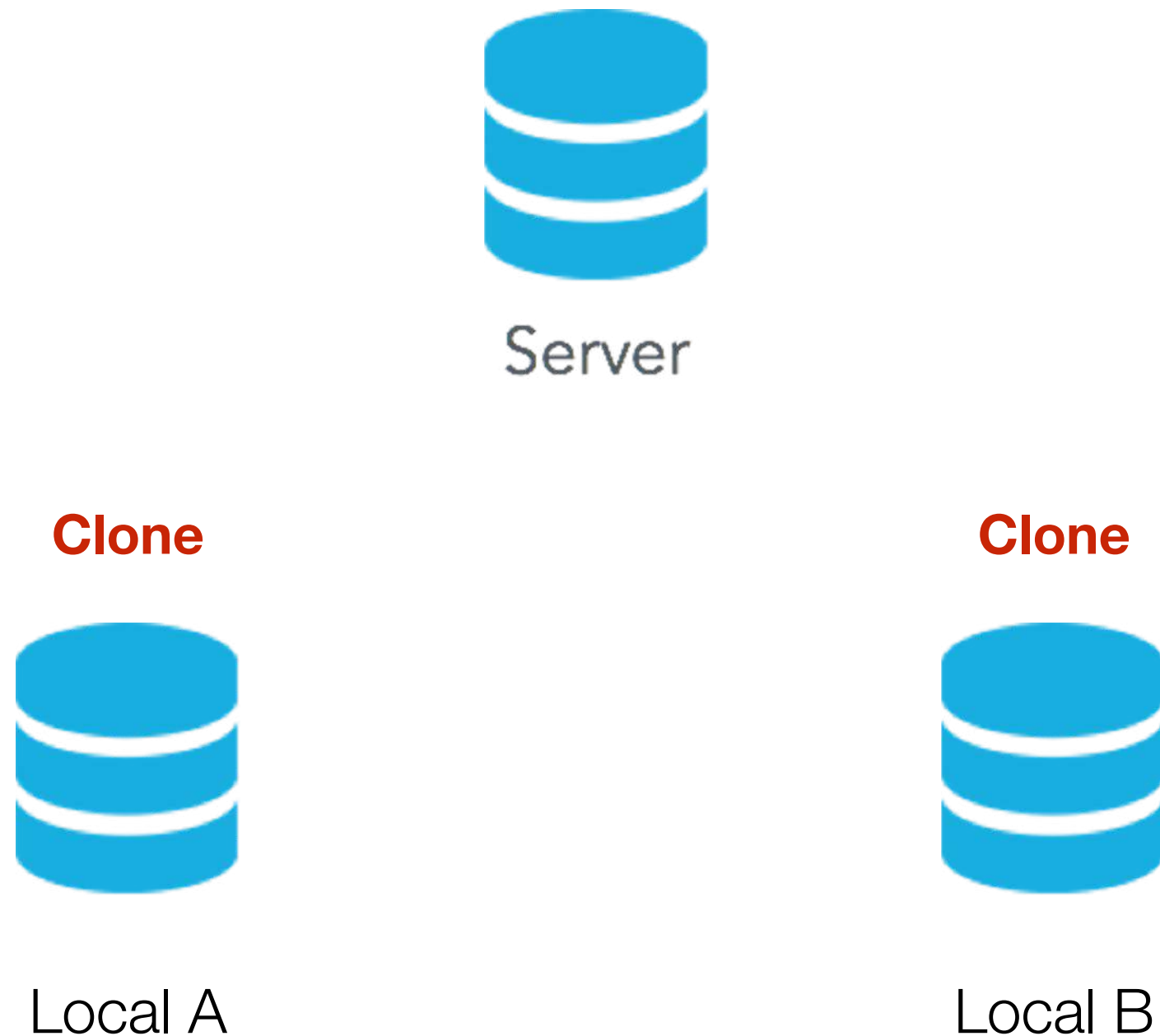
# Outline

- Version control system
- Git basics
- Git branch
- **Remote repository**

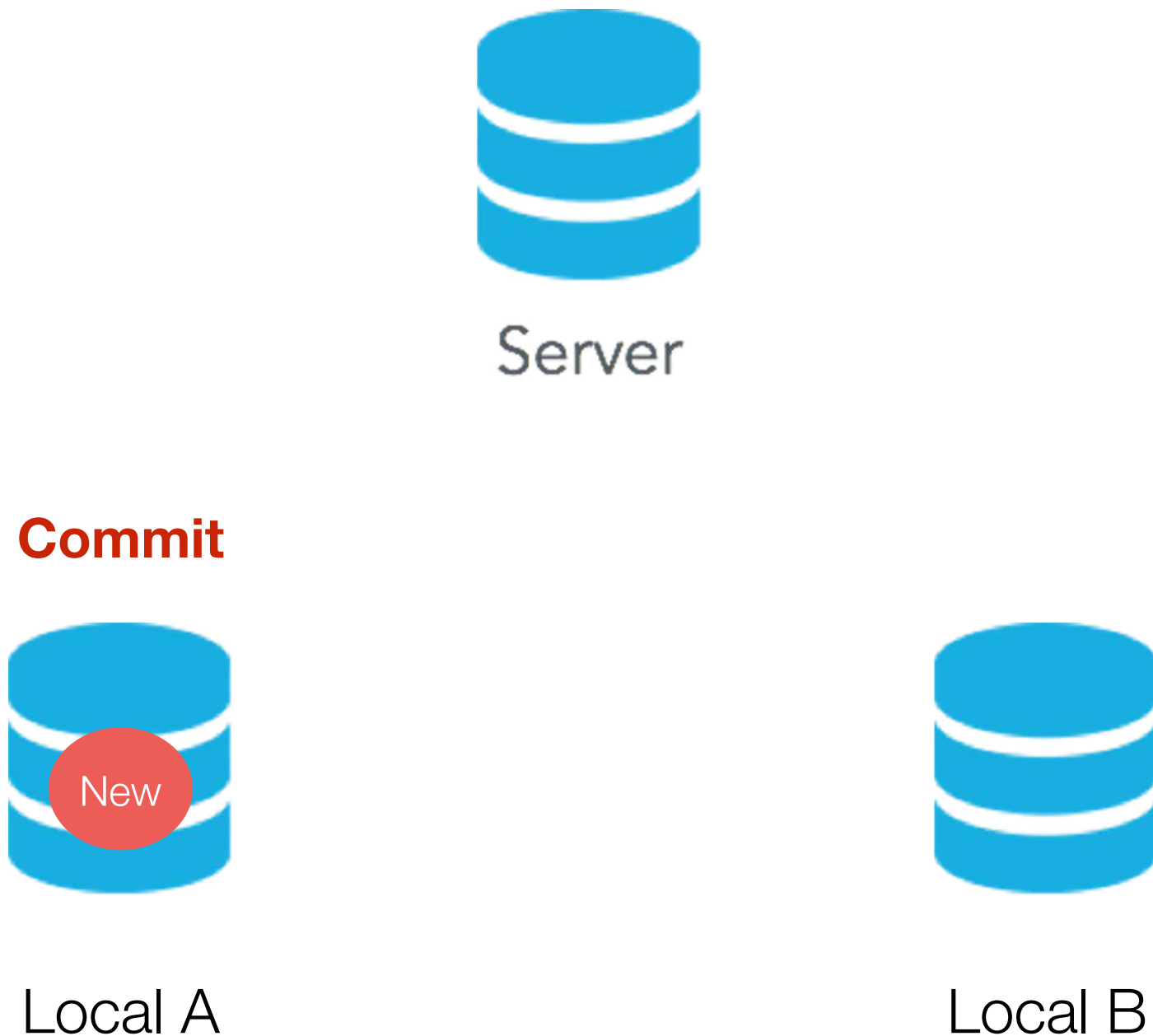
# Collaboration with Git

- To work with others using git, you'll need a server that store the repository.
- Git is distributed, which means
  - Everyone can store a copy of the repository downloaded from the server
  - They can do their jobs independently

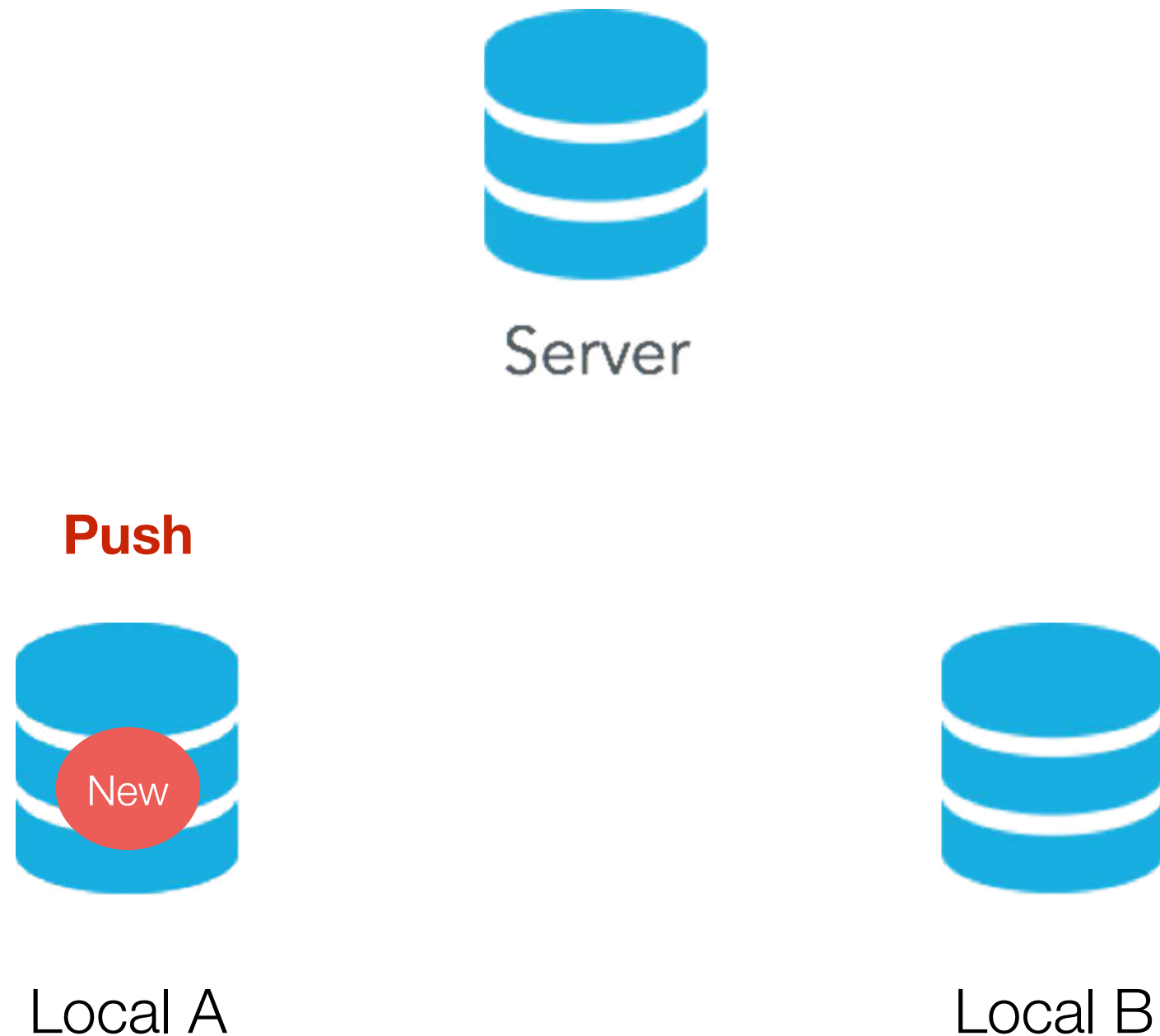
# Collaboration workflow



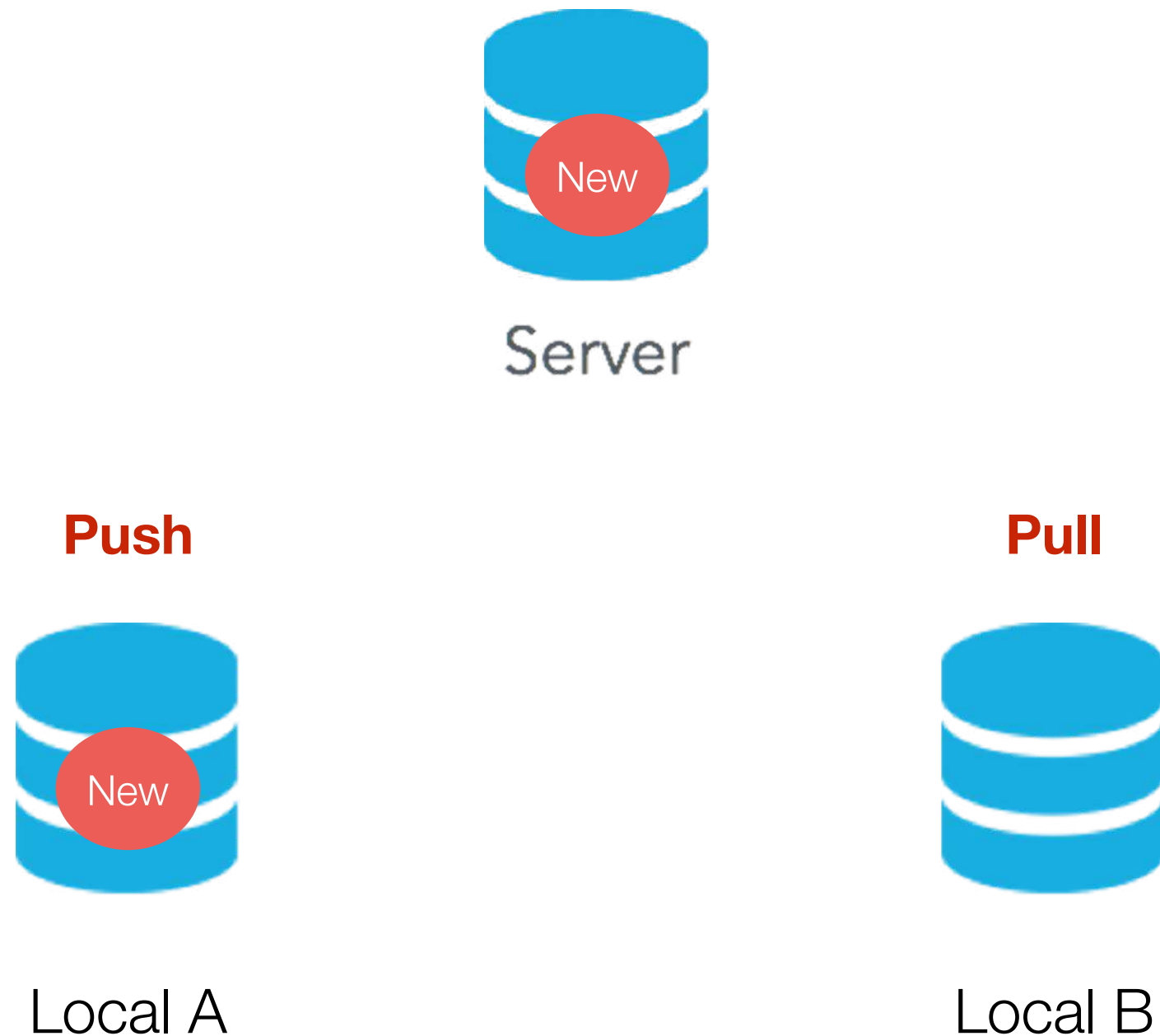
# Collaboration workflow



# Collaboration workflow



# Collaboration workflow





# Cloning & Pushing

- Cloning the remote repositories

```
git clone [Remote URL]
```

- The [Remote URL] is saved as **Origin**

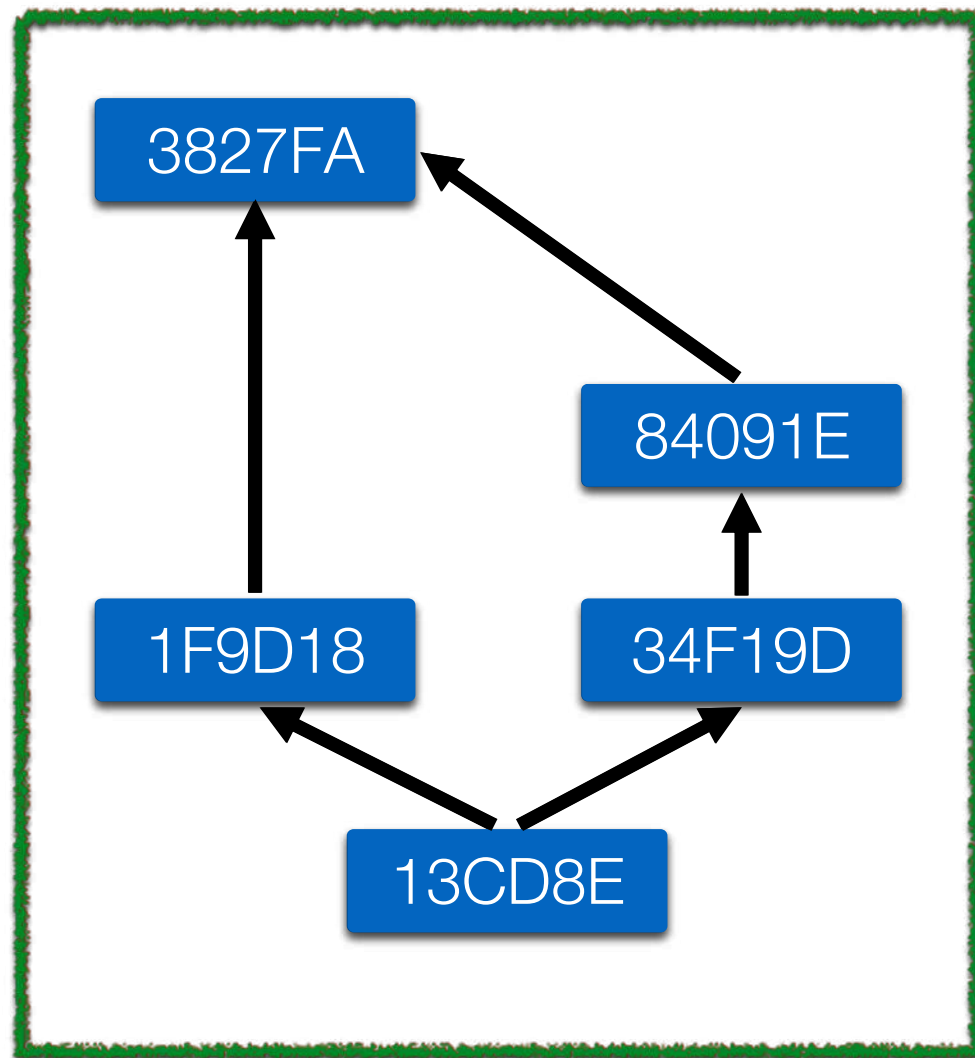
- After committing a few versions, you can push the branch back to **Origin**

```
git push -u origin [Branch Name]
```

# Fetch & Pull

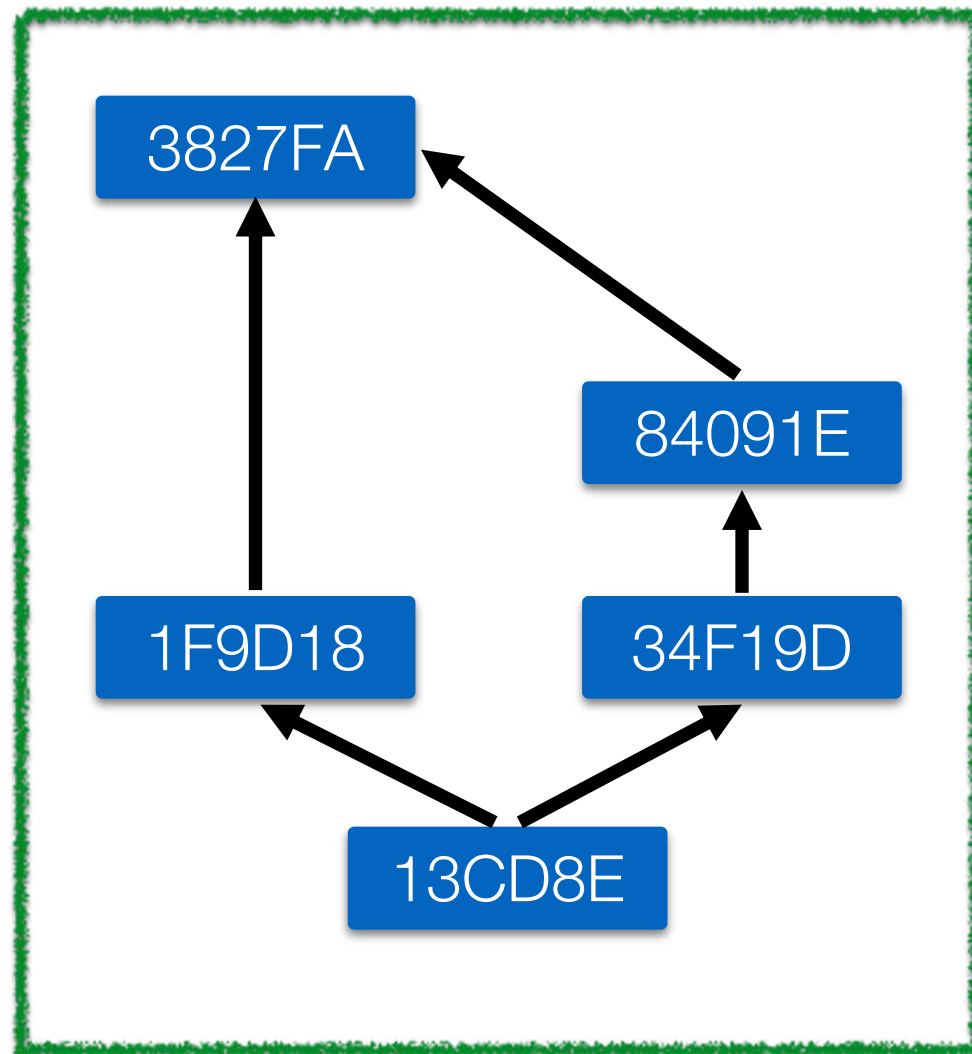
- Updating a branch from the remote repository
  - Fetching the remote repository to local  
`git fetch origin`
  - Merging the remote branch  
`git merge origin/[Branch Name]`
- Doing above commands in one command  
`git pull [Branch Name]`

# Fork

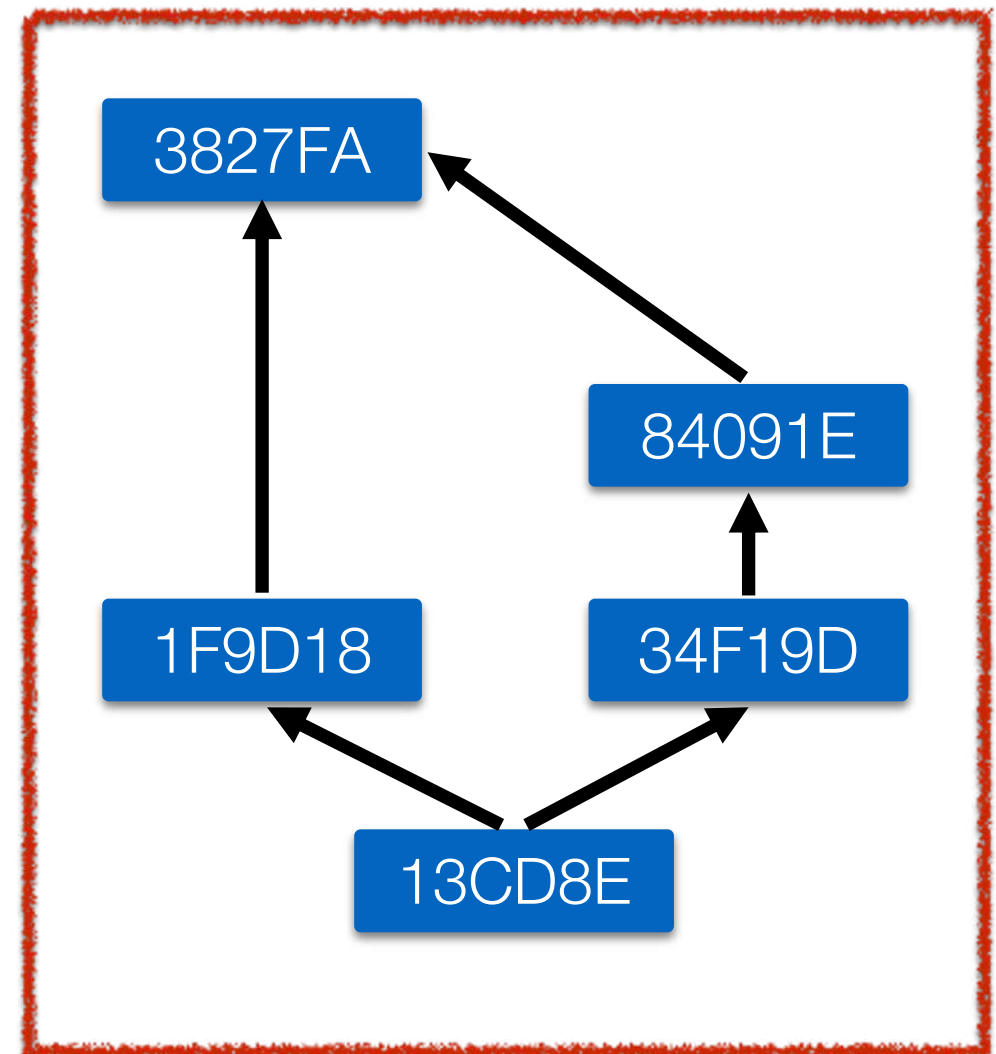


The Repo. Under TA's Account

# Fork

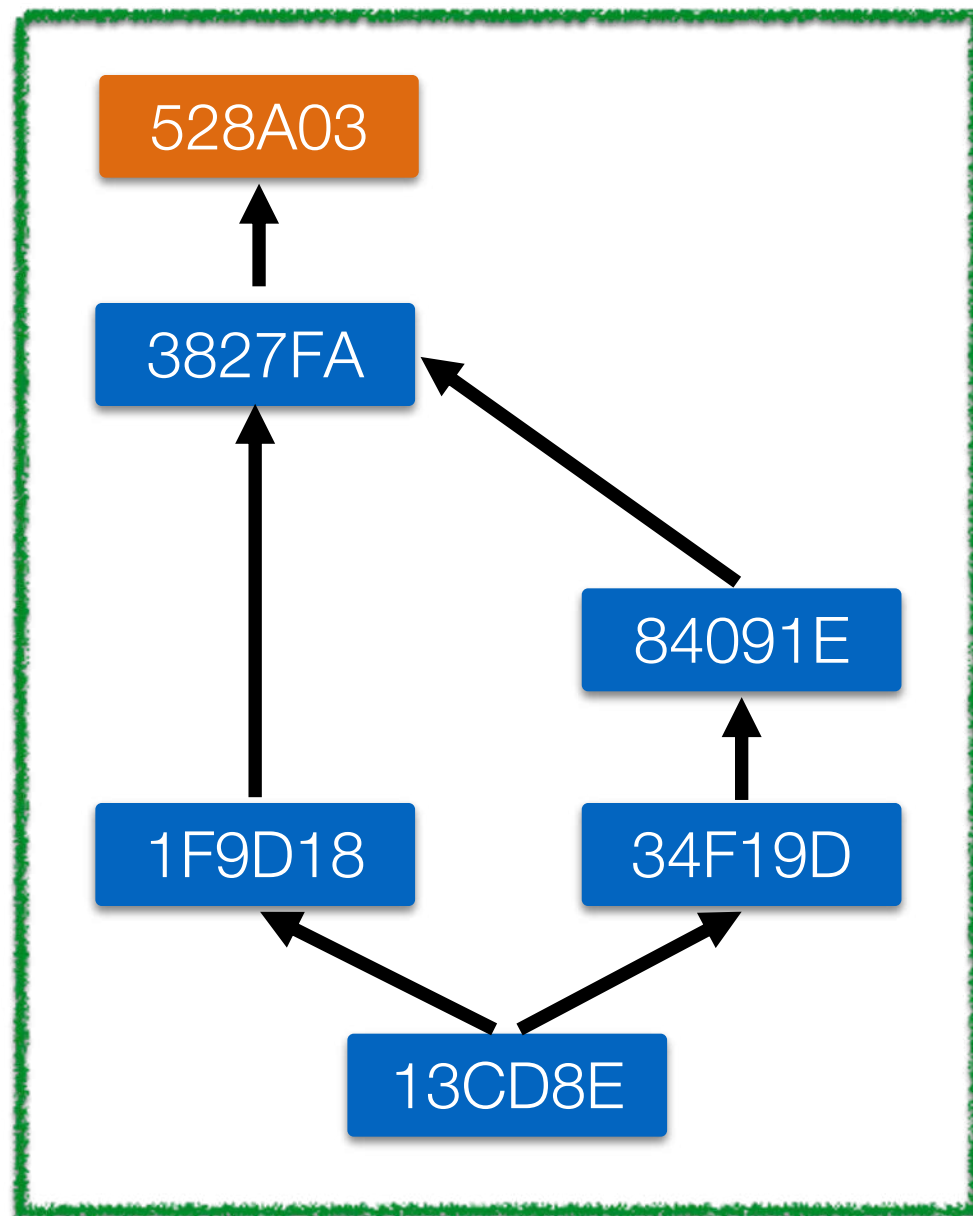


The Repo. Under TA's Account



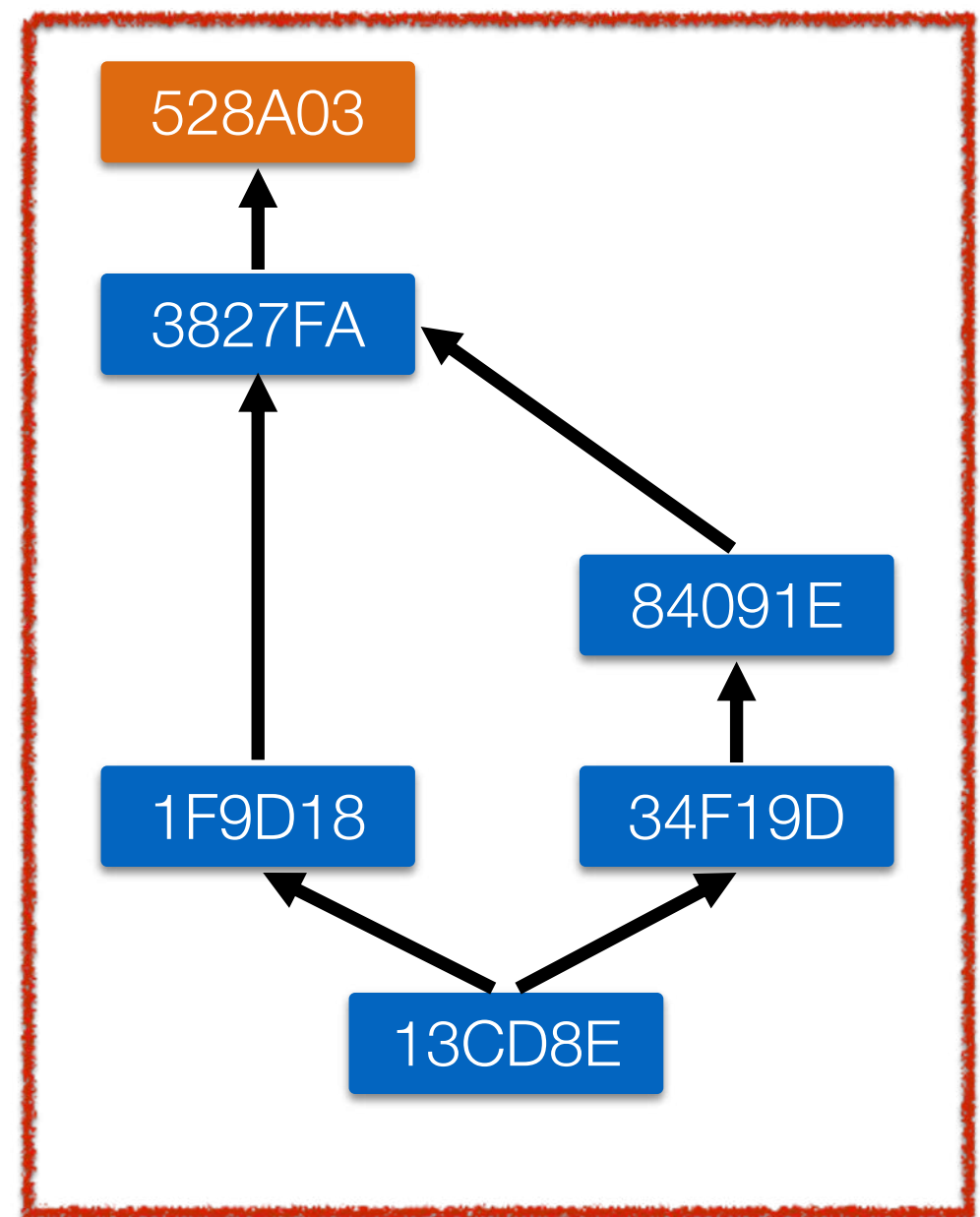
The Repo. Under Your Account

# Pull (Merge) Request



Pull Request

**Accept**



The Repo. Under TA's Account

The Repo. Under Your Account

# .gitignore File

- You can ignore some files that you don't want them to be tracked by editing the .gitignore file
- Remember to track and commit your .gitignore file
- Don't know what should be in .gitignore ?
  - <https://github.com/github/gitignore>
  - <https://www.gitignore.io/>

# How to Submit Your Code to Gitlab

# Workflow

- For each lab, you should follow the workflow below
  1. Fork our template repository on Gitlab
  2. Clone the forked repository to your computer
  3. Finish your lab
  4. Commit in your computer
  5. Push to Gitlab
  6. Send merge request of **your branch** to our template repository



# Workflow

- For each lab, you should follow the workflow below
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2020-spring

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practice-submission

Project ID: 9897

🔔 ▾

☆ Star0

🔗 Fork0

Clone ▾

🔒 No license. All rights reserved

🔗 1 Commit

🔗 1 Branch

🔗 0 Tags

📄 41 KB Files

master ▾

practice-submission /

+

▾

History

🔍 Find file

Web IDE

🔗 ▾

🌐

Initial commit

Yi-Chun Chen authored 6 hours ago

9af13851

🔗

📄 README

Auto DevOps enabled

Name	Last commit	Last update
📄 README.md	Initial commit	6 hours ago

📄 README.md

## Practice Submission

This repository is built for practicing submissions for assignments and projects. You can follow the instructions below in order to know the whole workflow for submitting an assignment or a project.

### Try It !!

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practice-submission

Project ID: 9902

Star 0

Fork 0

Clone ▾

Add license

0 Commits

1 Branch

0 Tags

0 Bytes Files

Forked from [courses / databases / 2020-spring / practice-submission](#)

master ▾

practice-submission / + ▾

History

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Web IDE

Initial commit

Yi-Chun Chen authored 6 hours ago

9af13851

README

Add CHANGELOG

Add CONTRIBUTING

Auto DevOps enabled


Name	Last commit	Last update
README.md	Initial commit	6 hours ago

README.md

## Practice Submission

This repository is built for practicing submissions for assignments and projects. You can follow the instructions below in order to know the whole workflow for submitting an assignment or a project.

1. Click to fork


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Pin-Yu Wang > practice-submission > Details

2. Check if this repository is under your account

0 Clone ▾

Add license

0 Commits

1 Branch

0 Tags

0 Bytes Files

Forked from [courses / databases / 2020-spring / practice-submission](#)

master ▾


practice-submission / + ▾

History


Find file

Web IDE

⌵

 Initial commit

Yi-Chun Chen authored 6 hours ago


9af13851 


README

Add CHANGELOG

Add CONTRIBUTING

Auto DevOps enabled

Name	Last commit	Last update
 README.md	Initial commit	6 hours ago

 README.md

### Practice Submission

This repository is built for practicing submissions for assignments and projects. You can follow the instructions below in order to know the whole workflow for submitting an assignment or a project.

3. Go to settings

GitLab

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Ppractice-submission

ProjectRepositoryIssues0Merge Requests0WikiSnippetsSettingsGeneralMembersIntegrationsRepository

<< Collapse sidebar

Pin-Yu Wang > practice-submission > General Settings

General projectExpand

Update your project name, description, avatar, and other general settings.

PermissionsCollapse

Enable or disable certain permissions for this project.

Project visibility ⓘ

Private

The project is accessible only by members of the project. Access must be granted explicitly to each user.

Issues

Lightweight issue tracking system for this project

Only Project Members

Repository

View and edit files in this project


Only Project Members

Merge requests

Submit changes to be merged upstream

Only Project Members

4. Set project to private


 GitLab


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5. Scroll down and save changes

Save changes

Merge request

Customize your merge request restrictions.

Expand

Badges

Customize your project badges. [Learn more about badges.](#)

Expand

Export project

Export this project with all its related data in order to move your project to a new GitLab instance. Once the export is finished, you can import the file from the "New Project" page.

Expand

Advanced


Perform advanced options such as housekeeping, archiving, renaming, transferring, or removing your project.

Expand

# Workflow

- For each lab, you should follow the workflow below
  1. Fork our template repository on Gitlab
  2. Clone the forked repository to your computer
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 GitLab

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Settings

Pin-Yu Wang > practice-submission > Details


P practice-submission

Project ID: 9902

[Add license](#) 0 Commits 1 Branch 0 Tags 0 Bytes Files

Forked from [courses / databases / 2020-spring / practice-submission](#)

master practice-submission / + ▾

 Initial commit

Yi-Chun Chen authored 6 hours ago

README

Add CHANGELOG

Add CONTRIBUTING

Auto DevOps enabled

Name	Last commit	Last update
README.md	Initial commit	6 hours ago

README.md

## Practice Submission

This repository is built for practicing submissions for assignments and projects. You can follow the instructions below in order to know the whole

🔔 ▾ ⭐ Star 0 🍴 Fork 0 Clone ▾

Clone with SSH

git@shwu10.cs.nthu.edu.tw:pywa

Clone with HTTPS

https://shwu10.cs.nthu.edu.tw/p

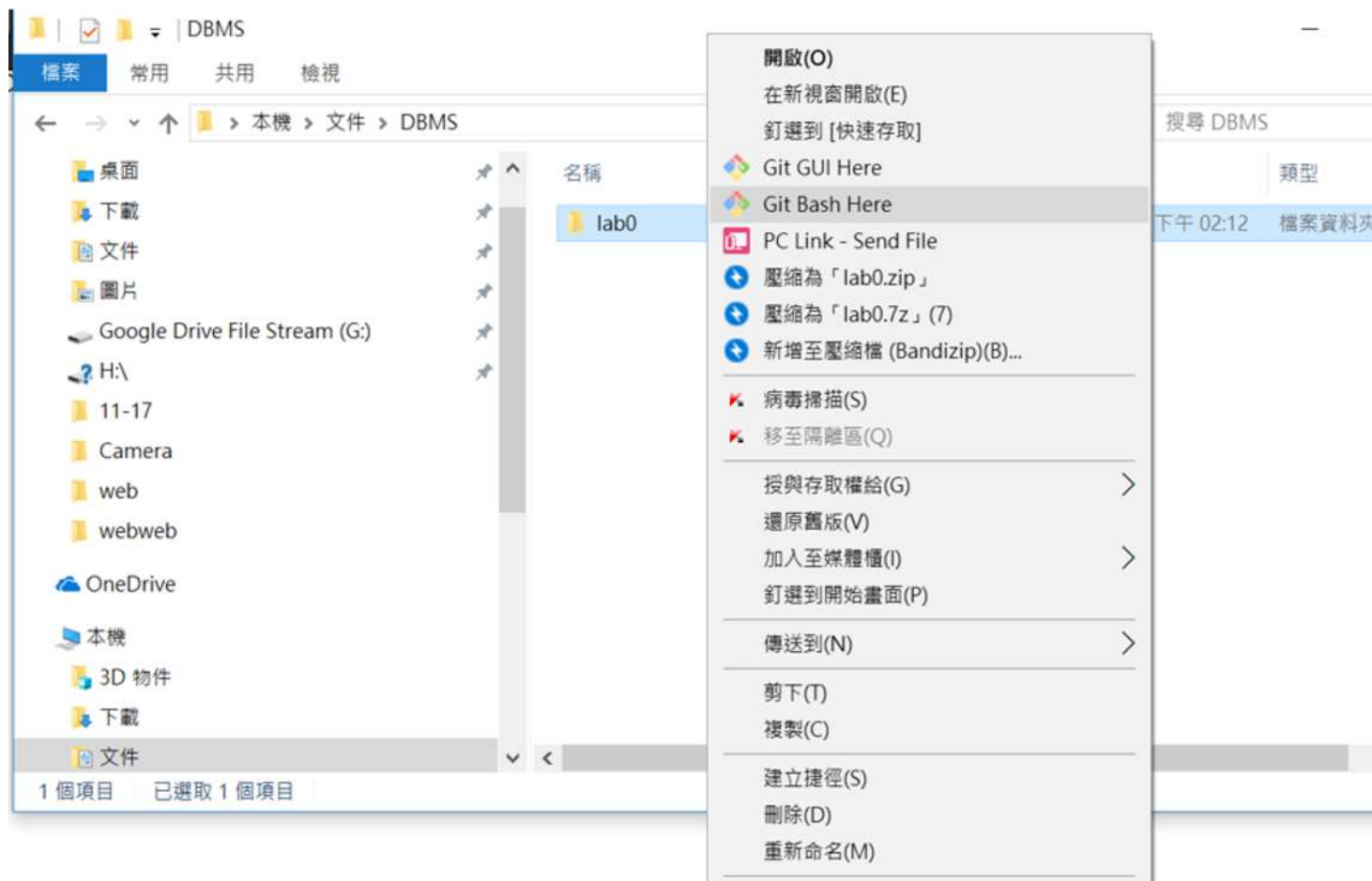
9af13851

2. Copy the link

1. Choose HTTPS



# If You use Windows



```
yicchen@LAPTOP-V7AFEOV7 MINGW64 ~/Documents/DBMS/lab0
$ git clone https://shwu10.cs.nthu.edu.tw/ycchen/practice-submission.git
Cloning into 'practice-submission'...
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0)
Unpacking objects: 100% (3/3), done.

yicchen@LAPTOP-V7AFEOV7 MINGW64 ~/Documents/DBMS/lab0
$ ls
practice-submission/

yicchen@LAPTOP-V7AFEOV7 MINGW64 ~/Documents/DBMS/lab0
$
```

3. Create a folder to put your repos

```
yicchen@LAPTOP-V7AFE0V7 MINGW64 ~/Documents/DBMS/lab0
$ git clone https://shwu10.cs.nthu.edu.tw/ycchen/practice-submission.git
Cloning into 'practice-submission'..
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0)
Unpacking objects: 100% (3/3), done.
```

4. Type "git clone {URL}"

```
yicchen@LAPTOP-V7AFE0V7 MINGW64 ~/Documents/DBMS/lab0
$ ls
practice-submission/
```

5. The repo has been successfully cloned

```
yicchen@LAPTOP-V7AFE0V7 MINGW64 ~/Documents/DBMS/lab0
$
```

# Workflow

- For each lab, you should follow the workflow below
  1. Fork our template repository on Gitlab
  2. Clone the forked repository to your computer
  - 3. Finish your lab**
  4. Commit in your computer
  5. Push to Gitlab
  6. Send merge request of your branch to our template repository

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```
yicchen@LAPTOP-V7AFE0V7 MINGW64 ~/Documents/DBMS/lab0/practice-submission (master)
```

```
$ git add -A
```

1. -A means all files

```
yicchen@LAPTOP-V7AFE0V7 MINGW64 ~/Documents/DBMS/lab0/practice-submission (master)
```

```
$ git status
```

```
On branch master
```

```
Your branch is up-to-date with the upstream branch.
```

2. Check if your file is added to git

```
Changes to be committed:
```

```
(use "git reset HEAD <file>..." to unstage)
```

```
new file:   practice.txt
```

```
yicchen@LAPTOP-V7AFE0V7 MINGW64 ~/Documents/DBMS/lab0/practice-submission (master)
```

```
$ git commit -m "Finish"
```

```
[master 93a03d5] Finish
```

```
1 file changed
```

```
create mode 100644 practice.txt
```

3. Commit your changes



```
yicchen@LAPTOP-V7AFE0V7 MINGW64 ~/Documents/DBMS/lab0/practice-submission (master)
```

```
$ git commit -m "Finish"
```

```
*** Please tell me who you are.
```

```
Run
```

```
git config --global user.email "you@example.com"  
git config --global user.name "Your Name"
```

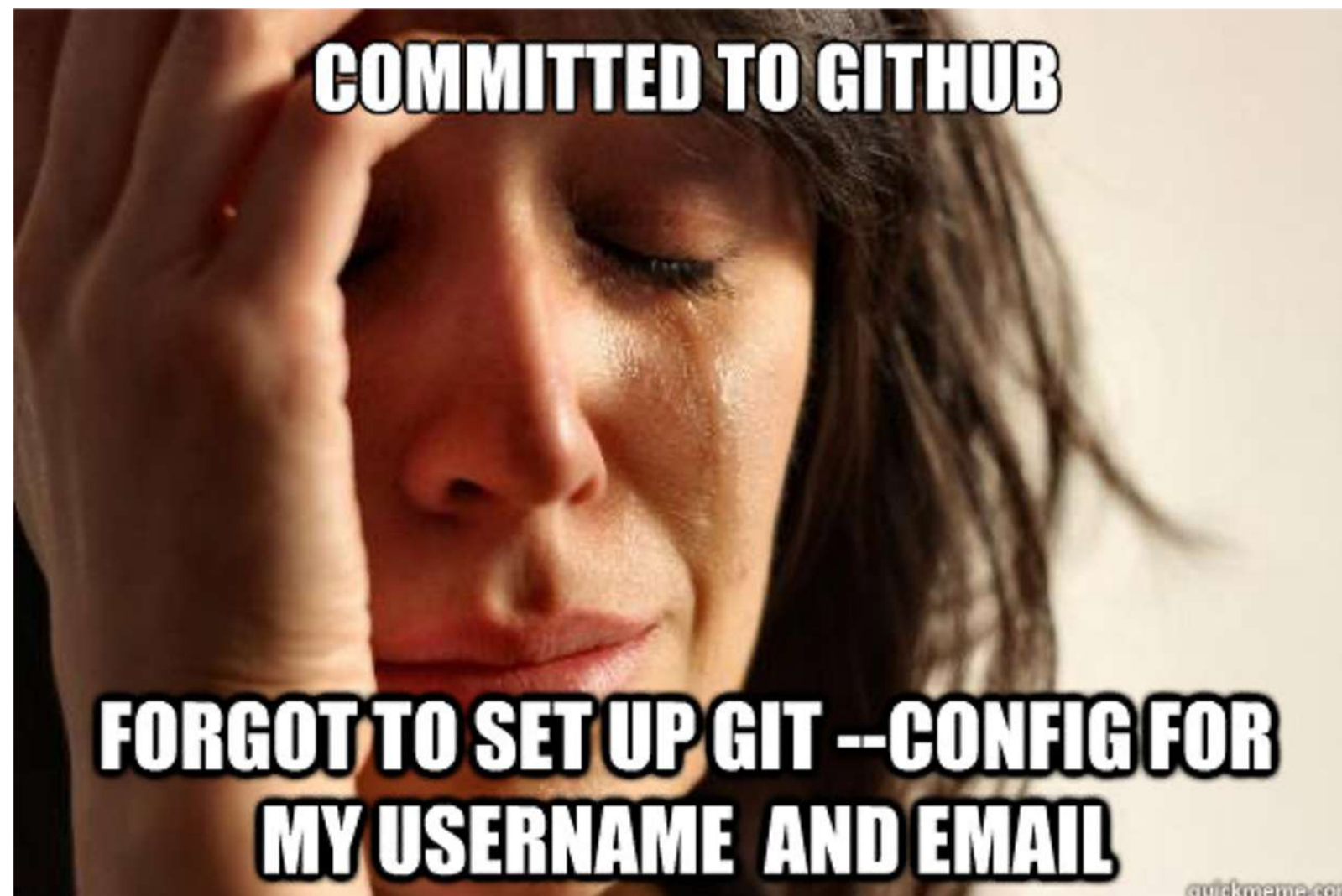
```
to set your account's default identity.
```

```
Commit --global to set the identity only in this repository
```

```
fatal: unable to auto-detect email address (got 'yicchen@LAPTOP-V7AFE0V7.(none)')
```

If you see these message, type  
git config --global user.name "{name}"  
git config --global user.email "{email}"

{email} is the email you use on gitlab



# Workflow

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```
ycchen@LAPTOP-V7AFE0V7 MINGW64 ~/Documents/DBMS/lab0/practice-submission (master)
```

```
$ git push origin master
```

```
Counting objects: 3, done
```

```
Delta compression
```

```
Compressing object
```

```
Writing objects: 100% (3/3), 284 bytes | 284.00 KiB/s, done.
```

```
Total 3 (delta 0), reused 0 (delta 0)
```

```
To https://shwu10.cs.nthu.edu.tw/ycchen/practice-submission.git
```

```
21e2fda..93a03d5 master -> master
```

Type "git push -u origin master"



# Workflow

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GitLab

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Project ID: 9897

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📄 No license. All rights reserved 🔗 1 Commit 🔗 1 Branch 🔗 0 Tags 📄 41 KB Files

master ▾ practice-submission / + ▾

History 🔍 Find file Web IDE 🔗 ▾

🌐 Initial commit

Yi-Chun Chen authored 6 hours ago

9af13851 🔗



Name	Last commit	Last update
📄 README.md	Initial commit	6 hours ago

📄 README.md

## Practice Submission

This repository is built for practicing submissions for assignments and projects. You can follow the instructions below in order to know the whole workflow for submitting an assignment or a project.

1. Click Merge Requests

 **GitLab** Projects ▾ Groups ▾ Activity Milestones Snippets 

P practice-submission

Project

Repository

Issues 0

Merge Requests 0

Wiki

Snippets

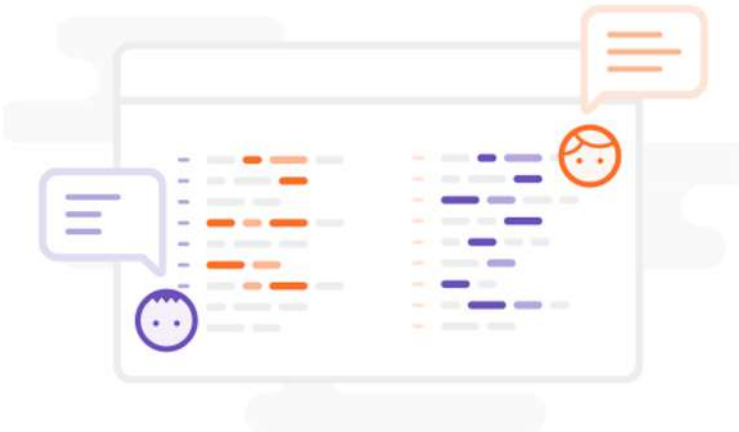
Members

courses

2020-spring

practice-submission

Merge Requests



**Merge requests are a place to propose changes you've made to a project and discuss those changes with others**

Interested parties can even contribute by pushing commits if they want to.

New merge request

2. New merge request

GitLab

Projects Groups Activity Milestones Snippets

practice-submission

Project

Repository

Issues 0

Merge Requests 0

Wiki

Snippets

Settings

### New Merge Request

Source branch

pywang/practice-submission

first commit  
Pin-Yu Wang authored 10 minutes ago  
6846e605

Compare branches and continue

Target branch

courses/databases/2020-spring/practic...

Initial commit  
Yi-Chun Chen authored 7 hours ago  
9af13851

3. Choose the branch you pushed in your repo

4. Choose the branch named after your ID

5. Compare branches

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This project

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📖 Wiki

✂ Snippets

⚙ Settings

New Merge Request

From ycchen/practice-submission

Change branches

Title

std107000000 Submission

Start the title with **WIP:** to prevent a **Work In Progress** merge request from being merged before it's ready.

Add [description templates](#) to help your contributors communicate effectively!

Description

WritePreview

B I

finish|

Markdown and [quick actions](#) are supported

[Attach a file](#)

Assignee

Assignee ▾

[Assign to me](#)

Milestone

Milestone ▾

Labels

Labels ▾

Source branch

master ▾

Target branch

107000000 ▾

[Change branches](#)

☐ Squash commits when merge request is accepted. [About this feature](#)

6. Set title to "{ID} Submission"

 Settings

 Attach a file

Assign to me

▼

▼

✓

Change branches

☒ Squash commits when merge request is accepted. [About this feature](#)

☐ Allow commits from members who can merge to the target branch. [About this feature](#)

Not

Cancel

Commits 1 Changes 1

24 Feb, 2019 1 commit

 **Finish**  
Your Name authored 55 minutes ago

93a03d56 

&lt;&lt; Collapse sidebar

## 7. If everything is OK, submit your merge request

# In case of fire



1. git commit



2. git push



3. leave building



chanchishen > practice-submission > Members

## Project members

You can invite a new member to **practice-submission** or invite another group.

Invite member

Invite group

GitLab member or Email address

Yu-Xuan Lin ✕

Choose a role permission

Maintainer ▾

[Read more](#) about role permissions

Access expiration date

Expiration date

Members 1

1. Click Members



## Project members

You can invite a new member to **practice-submission** or invite another group.

Invite member	Invite group
<div>GitLab member or Email address</div> <div>Yu-Xuan Lin x</div>	
<div>Choose a role permission</div> <div>Maintainer</div> <div><a href="#">Read more</a> about role permissions</div>	
<div>Access expiration date</div> <div>Expiration date</div>	
<div>Invite</div>	

2. Set your members

3. Choose your members to be Maintainer

4. Click Invite

Members 1

# Reference

- Learn Git branching (interactive)
  - <http://pcottle.github.io/learnGitBranching/>
- Pro Git
  - <http://git-scm.com/book/>
- 寫給大家的 Git 教學
  - <http://www.slideshare.net/littlebtc/git-5528339>