

Lab 01

How to Survive & Introduction to Git

Web Programming
DataLab, CS, NTHU

Notice

- These slides will focus on how to submit you code by using Git command line
- You can also use other Git GUI tool or built-in Git tool in other IDE/editor

Outline

- General Rule
- Introduction to Git
 - Version control
 - Git Basics
 - Try Git!
 - Remote Repositories
- How to Submit Your Code to Gitlab
- Tools & References

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- Introduction to Git
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Teaching Assistants



Cheng-Hong Lin
*林振弘



I-Luh Wu
吳義路



Yan-Ting Lee
李彥霆



Bing-Han Chiang
江秉翰

How to Find Us?

- Office Hour (TAs)
 - Wed. 3:30-5:20pm at Delta 723/724
- Email (**Personal question only**)
 - Cheng-Hong Lin : chlin@datalab.cs.nthu.edu.tw
 - I-Luh Wu : ilwu@datalab.cs.nthu.edu.tw
 - Yan-Ting Lee : ytlee@datalab.cs.nthu.edu.tw
 - Bing-Han Chiang: bhchiang@datalab.cs.nthu.edu.tw
- Online Forum
 - iLms



If I have Question?

- Always Google first !
 - Learn how to google is important.
- If you try your best but still can't catch it.
 - Feel free to ask us on iLMS or office hour.



The Policy of Labs

- **All labs need to be submitted to GitLab.**
- Late submission will **not** be accepted.
- Plagiarism will not be tolerated.
 - If we find you copy someone's code, you will get **0 point** for that lab.
- Grading
 - Submission before lab ends gets 100% score
 - Submission before **11:59pm** gets 60% score

Team Up

- 2~4 people each team
 - 2 people is accepted if you can do as well as others.
- Please register your team here before **3/4 23:59**
 - Register form : <https://goo.gl/KVeKNE>
 - After that day we will match the rest student.

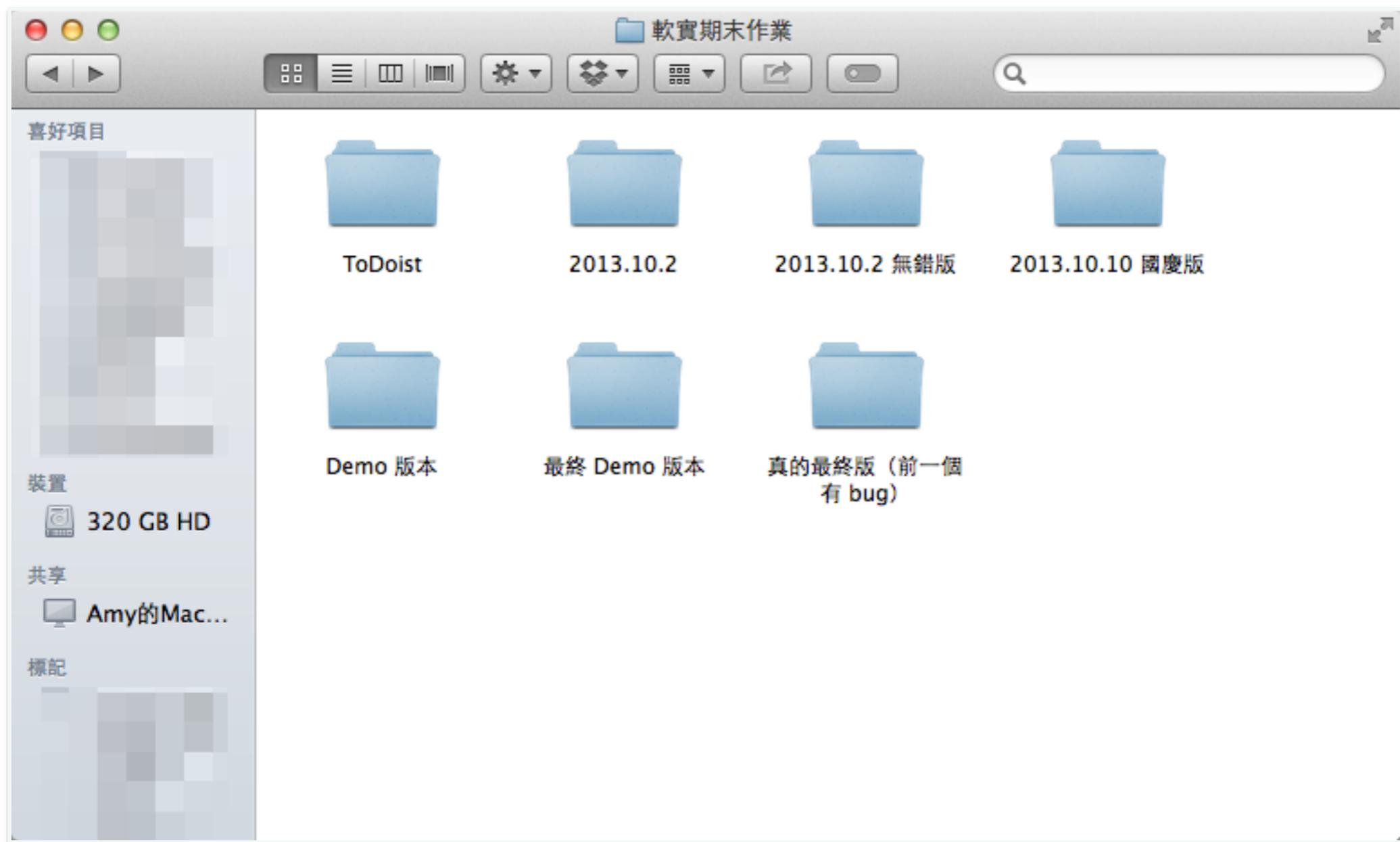
Outline

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Why use version control?

We want to track what we did and when we did it.

Students' VCS



How to work with others?



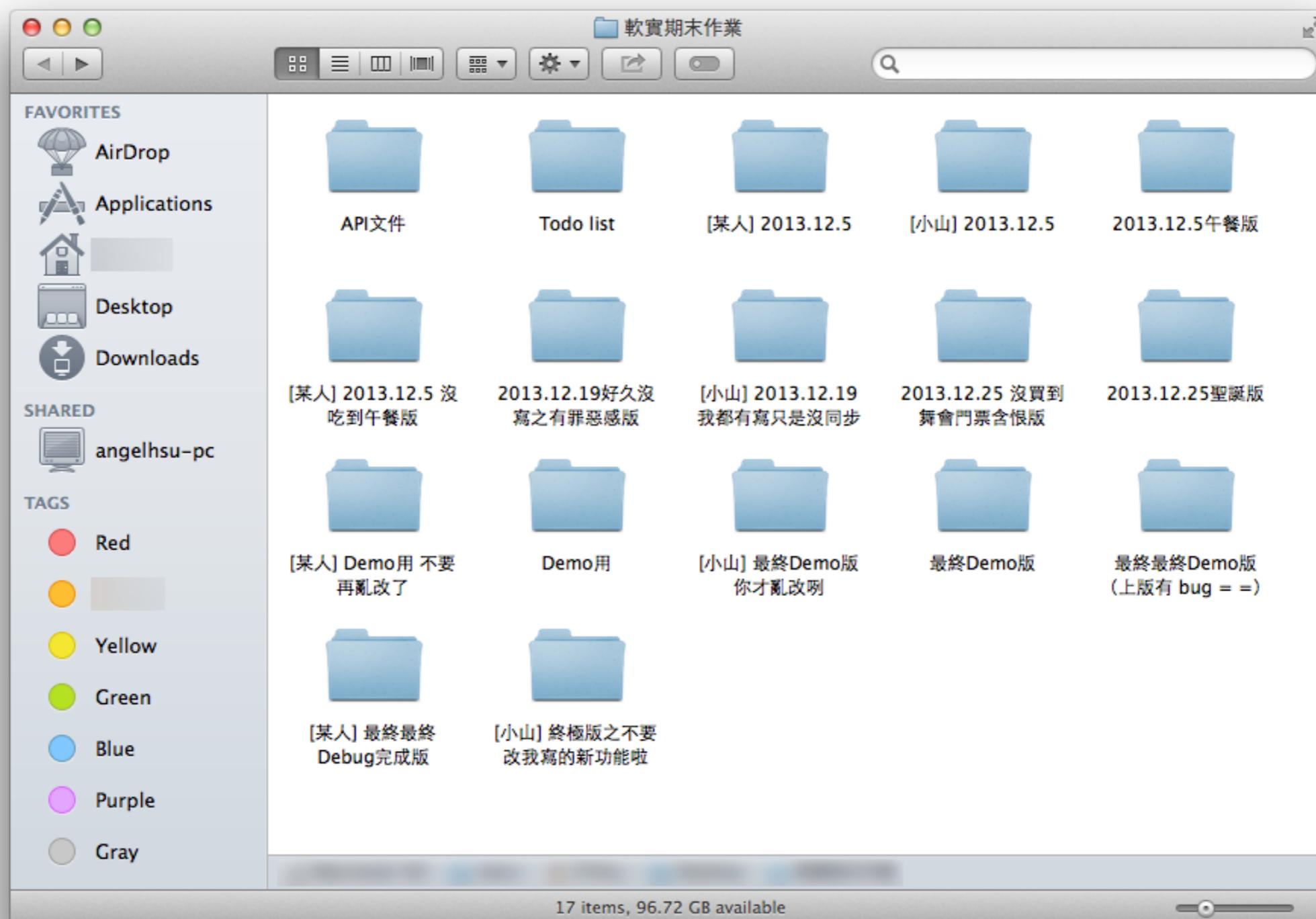
?



Dropbox

?

Dropbox VCS in Reality



Why use VCS?

- Managing your projects - tracking your files and modifications.
- Synchronization between modifications made by different developers.
- Revision history is still very helpful even if you work alone.

Outline

- General Rule
- Introduction to Git
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 - **Git Basics**
 - Try Git!
 - Remote Repositories
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Git



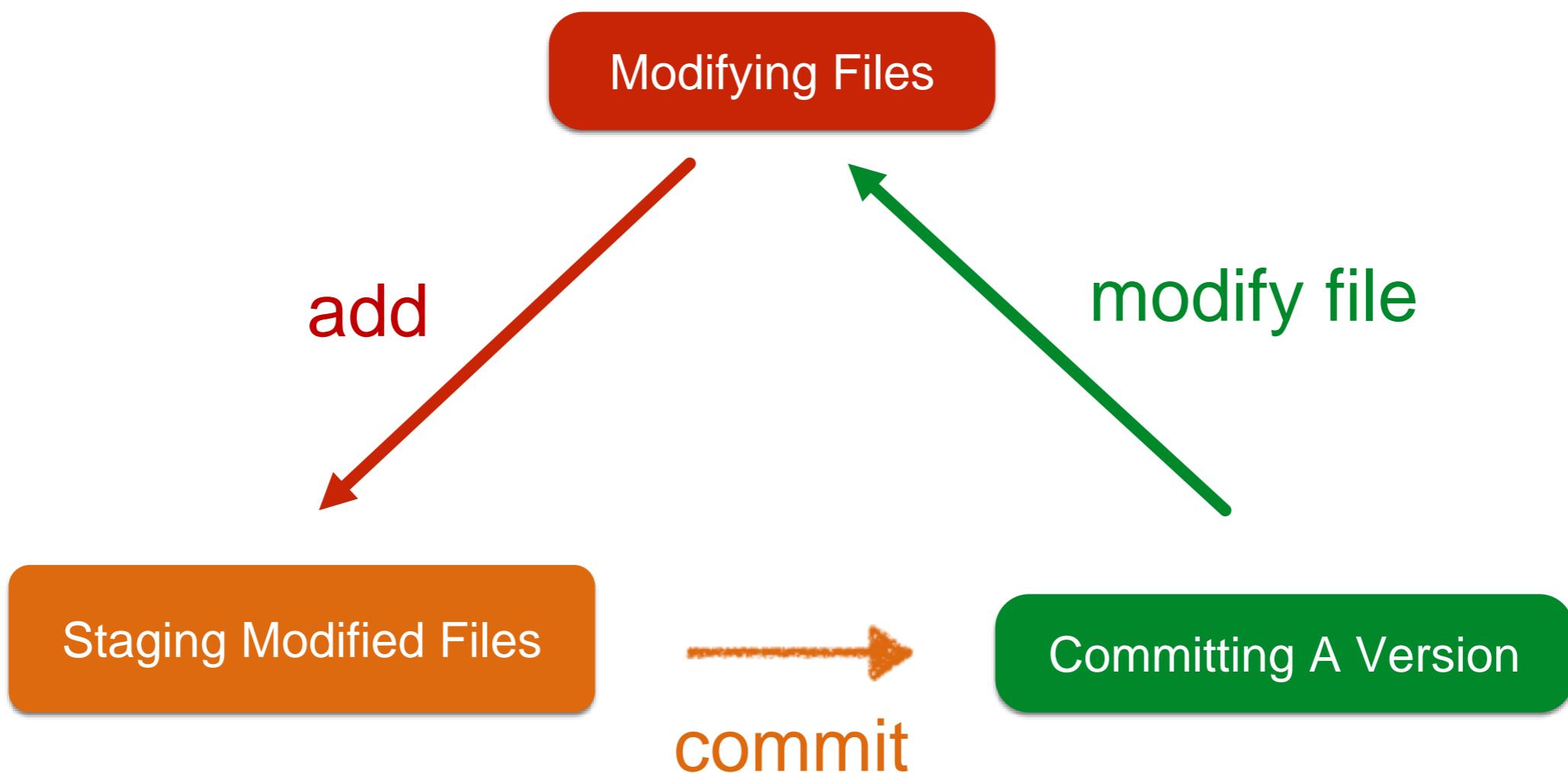
Git

- Git is a popular version control system which is
 - Fast
 - Easy to use
 - Distributed
- A git repository is a mini database that tracks your files.

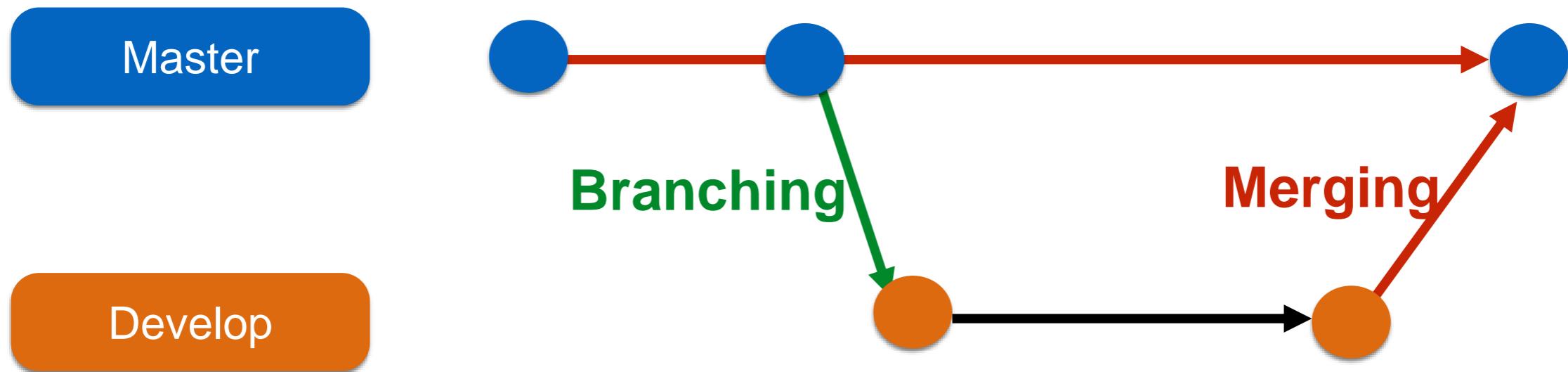
Git Workflow (1/2)

- With a local repository in your computer, you'll need following operations to make git track your work:
 - Create/modify files
 - Let git monitor the files by *adding* them to staging files.
 - Commit* your changes to and git will create snapshots (versions) of the files for you.

Git Workflow (2/2)



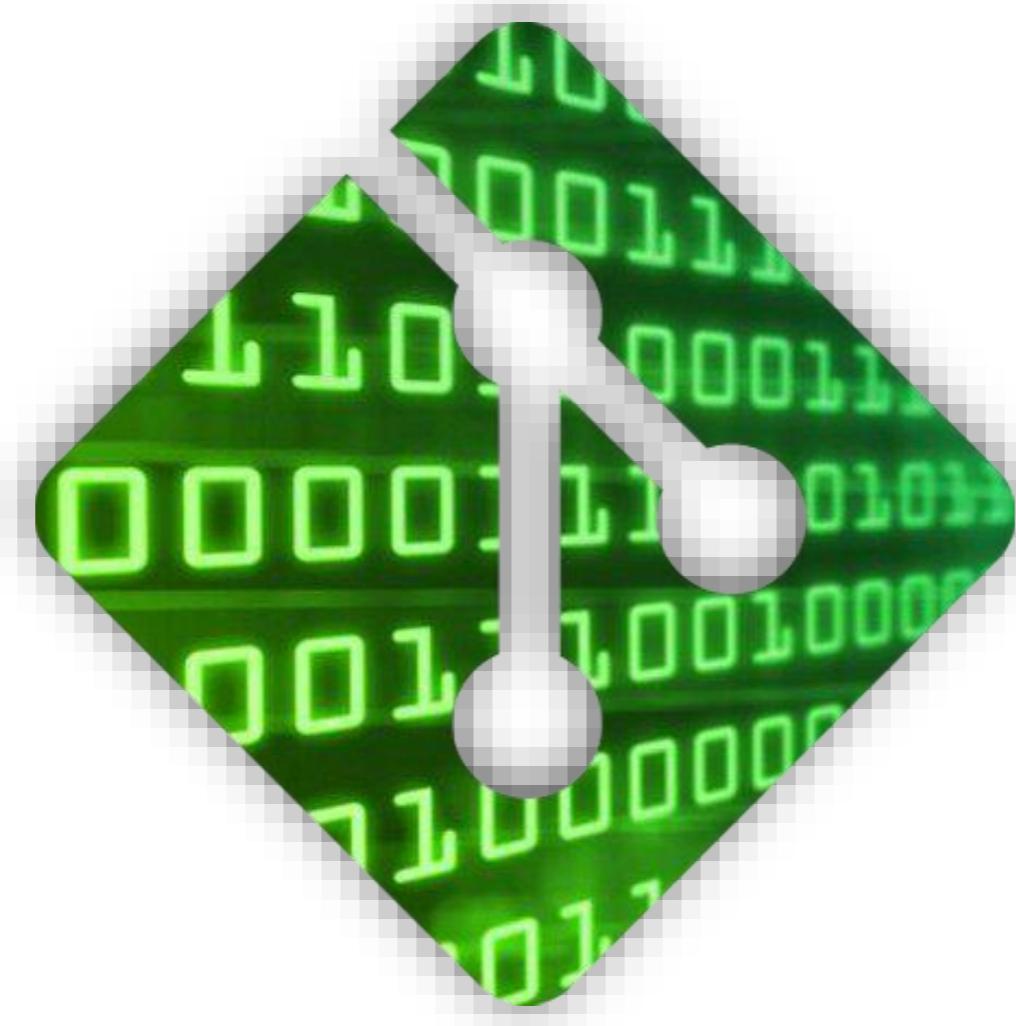
Git Branch



Outline

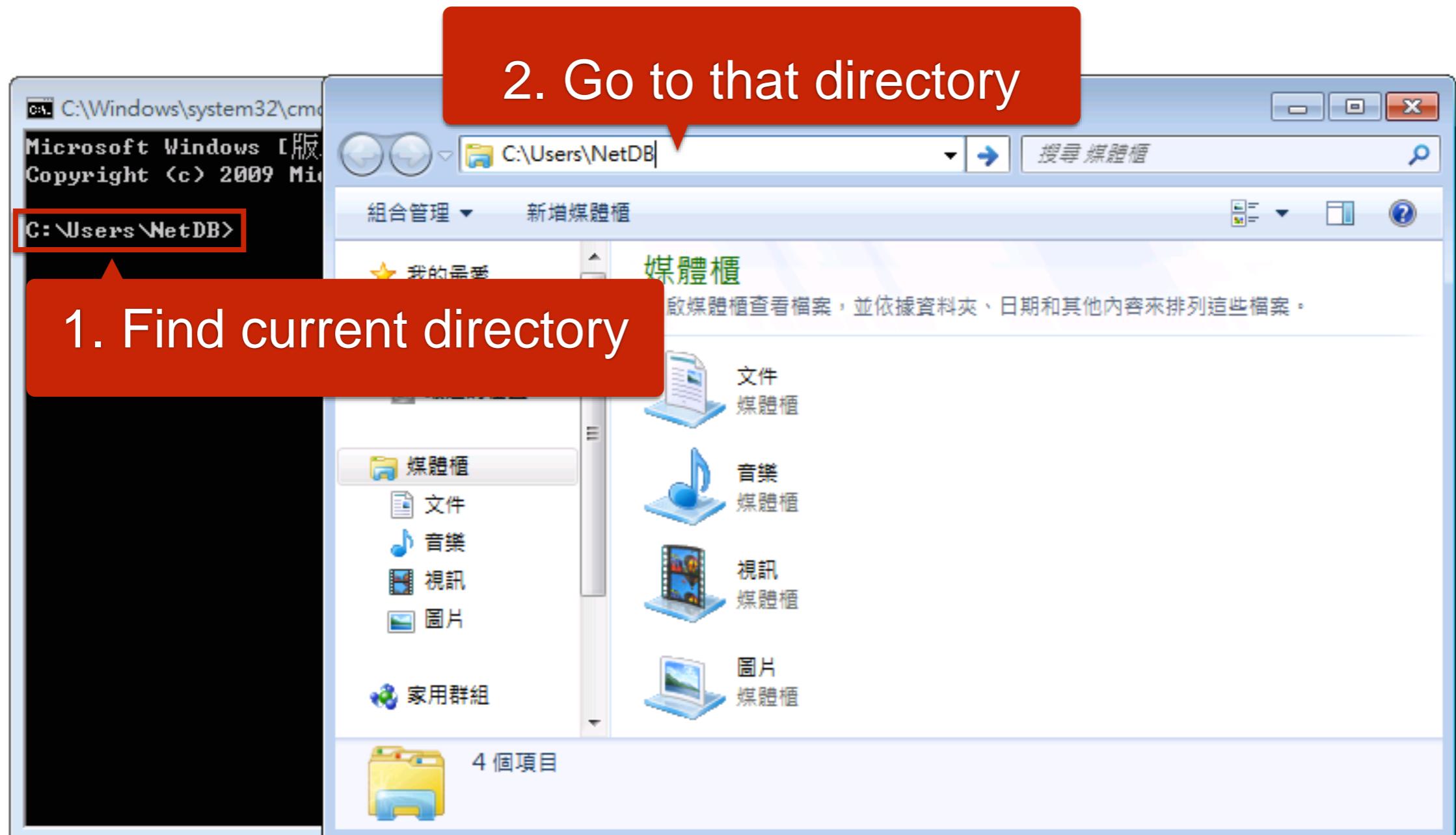
- General Rule
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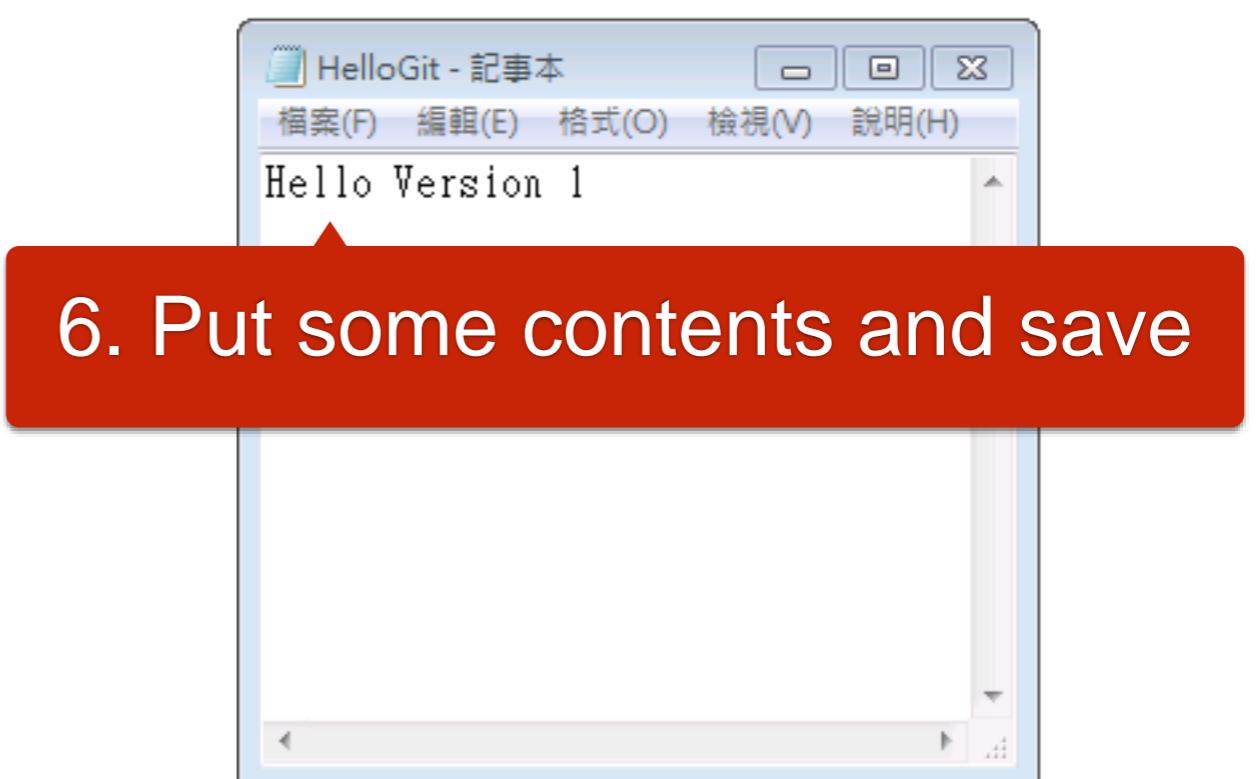
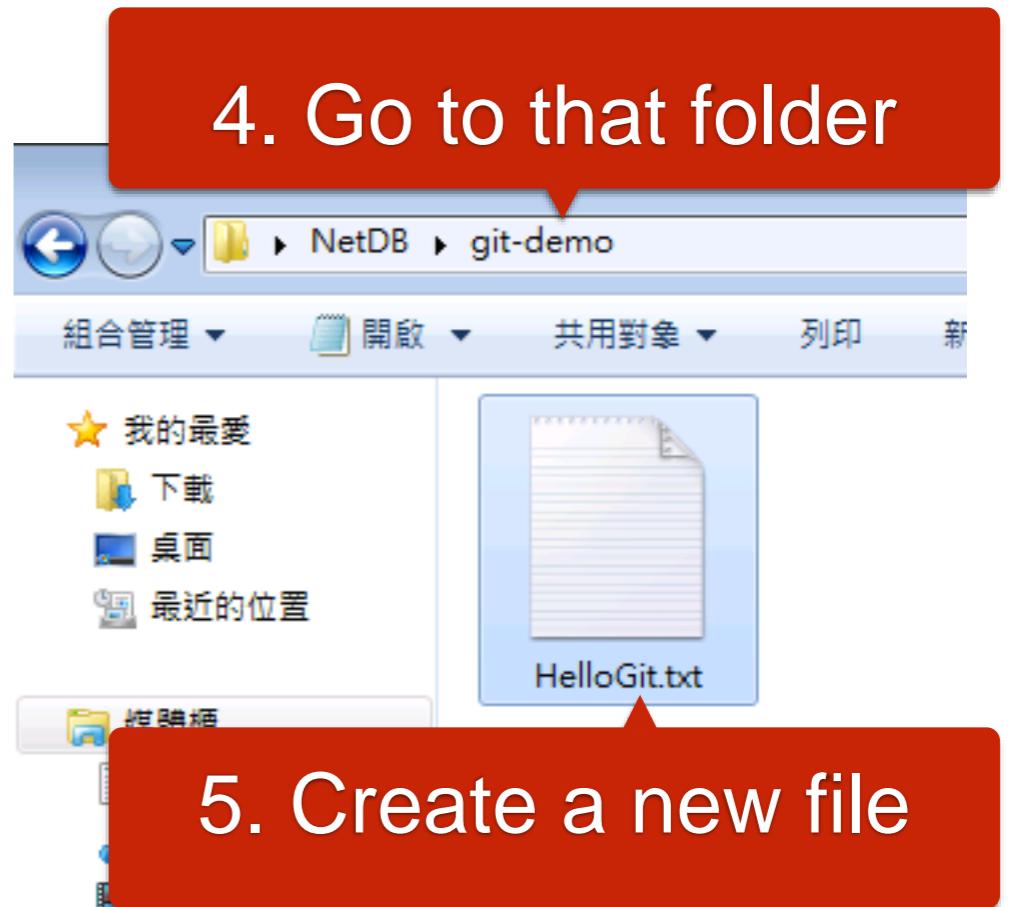
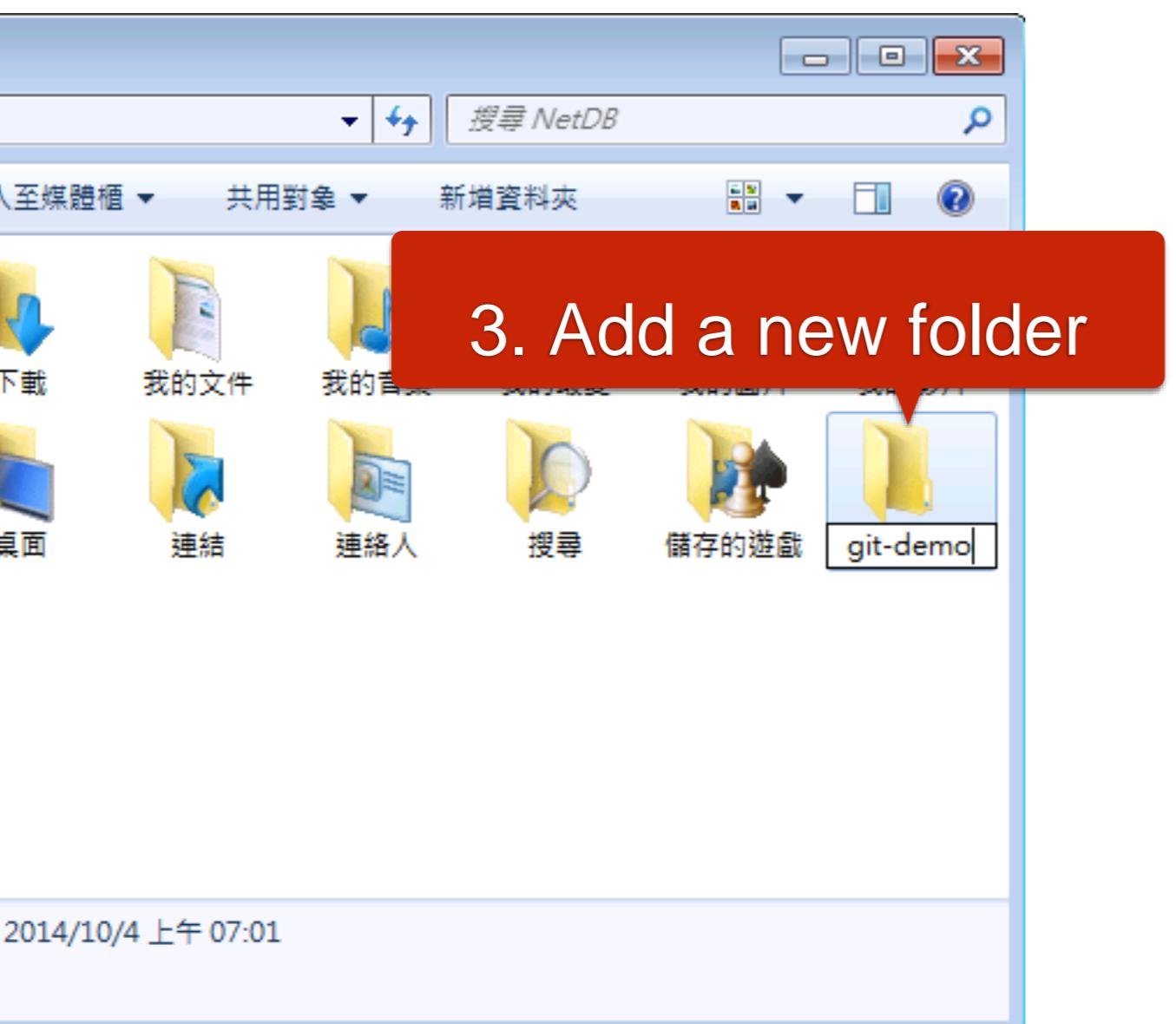
Be Professional



Basic Git Commands

- **git init**
 - Initialize a repository at current directory.
- **git add [file_name]**
 - Add files to git repository and let git track them.
- **git commit -m "commit messages"**
 - Save the changes to the git repository and create snapshots of the files.
- **git checkout [version]**
 - Go to a specific version.





```
命令提示字元  
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:\Users\NetDB>
```

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 02:12 <DIR>
..
15 HelloGit.txt
15 位元組
6,944 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>

8. Go to “git-demo”

9. Show the files in “git-demo”

10. Initialize a Git repository

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

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

11. Add HelloGit.txt to staging files

12. Commit your changes

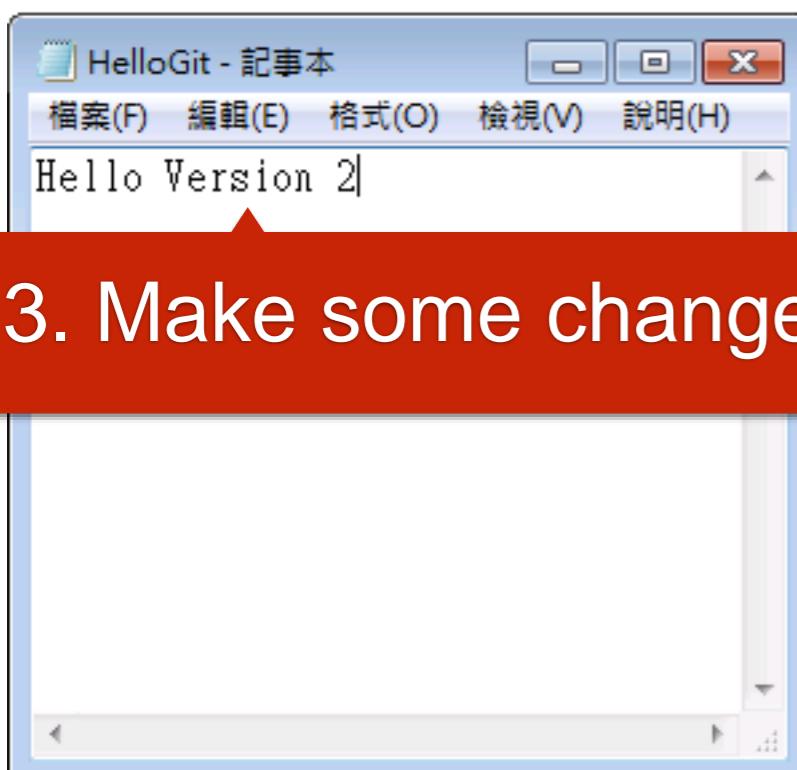
```
# Add HelloGit.txt to staging files
$ git add HelloGit.txt
```

```
# Commit the changes to the repository
# where "version 1" is the commit message
$ git commit -m "version 1"
```

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(-)
```

13. Make some changes and save



15. View your versions

Version ID

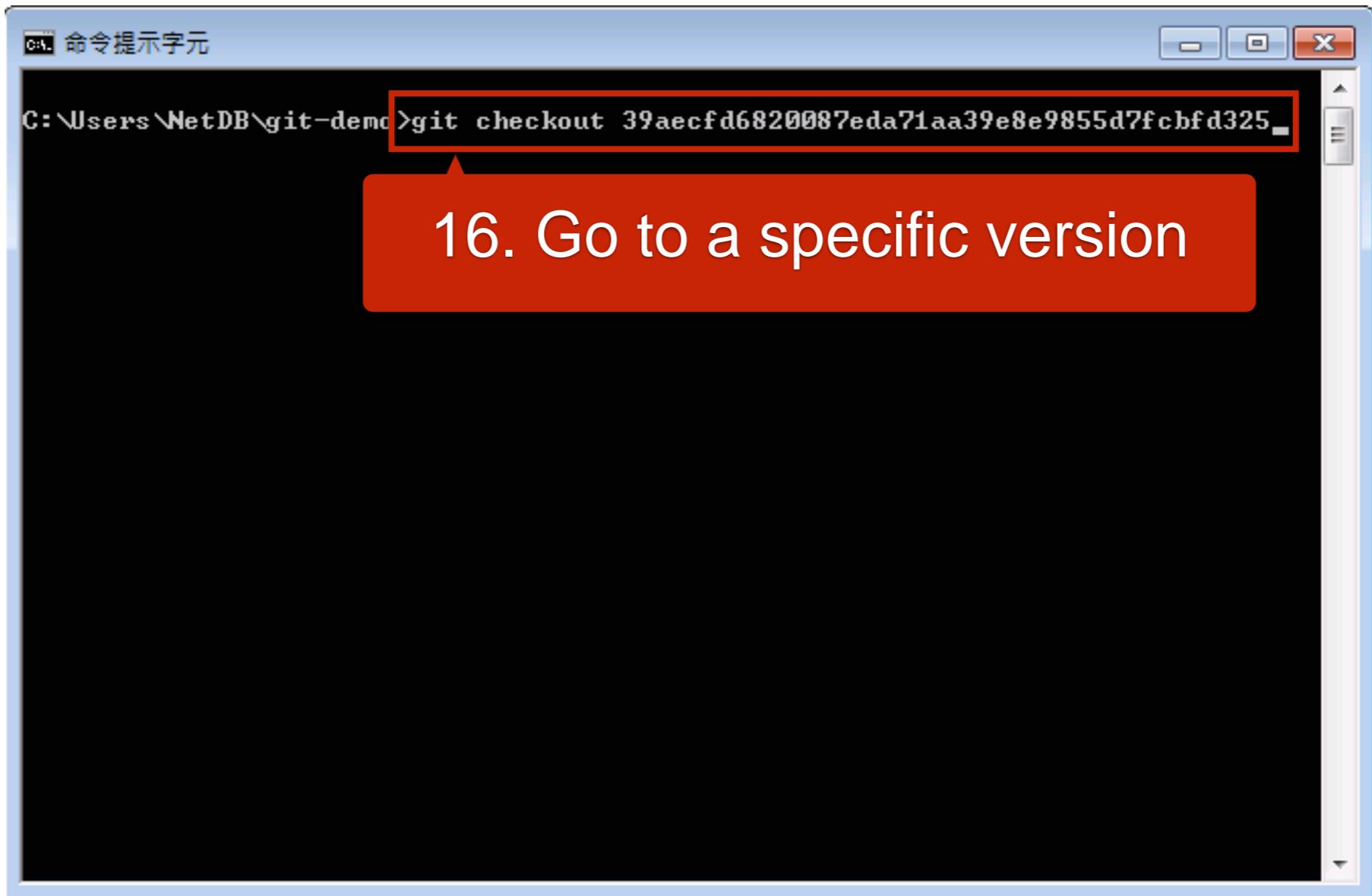
```
C:\Users\NetDB\git-demo>git log
commit e134c845df593f1451c4e9ebc874ddef6df42a76
Author: cyhsu <cyhsu@netdb.cs.nthu.edu.tw>
Date:   Sat Oct 4 08:09:55 2014 +0800

    version 2

commit 39aecfd6820087eda71aa39e8e9855d7fcfd325
Author: cyhsu <cyhsu@netdb.cs.nthu.edu.tw>
Date:   Sat Oct 4 08:09:16 2014 +0800

    version 1
```

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

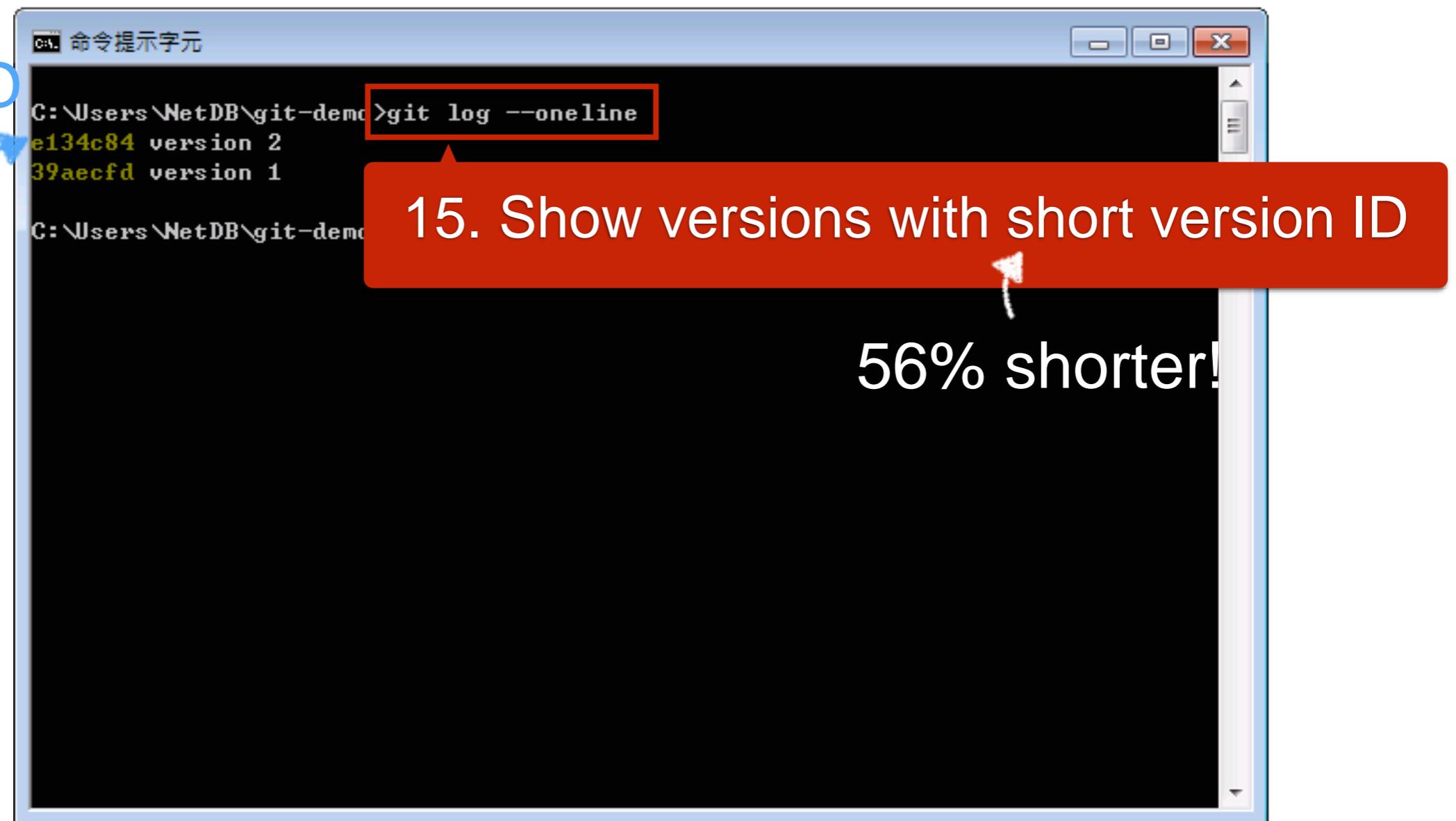


```
# Go to a specific version  
$ git checkout {version_id}
```

**LIFE IS
TOO SHORT
TO TYPE
THAT
VERSION ID!**

which is 40 characters long...

Version ID



A screenshot of a Windows Command Prompt window titled "命令提示字元". The command entered is "git log --oneline". The output shows two commits:

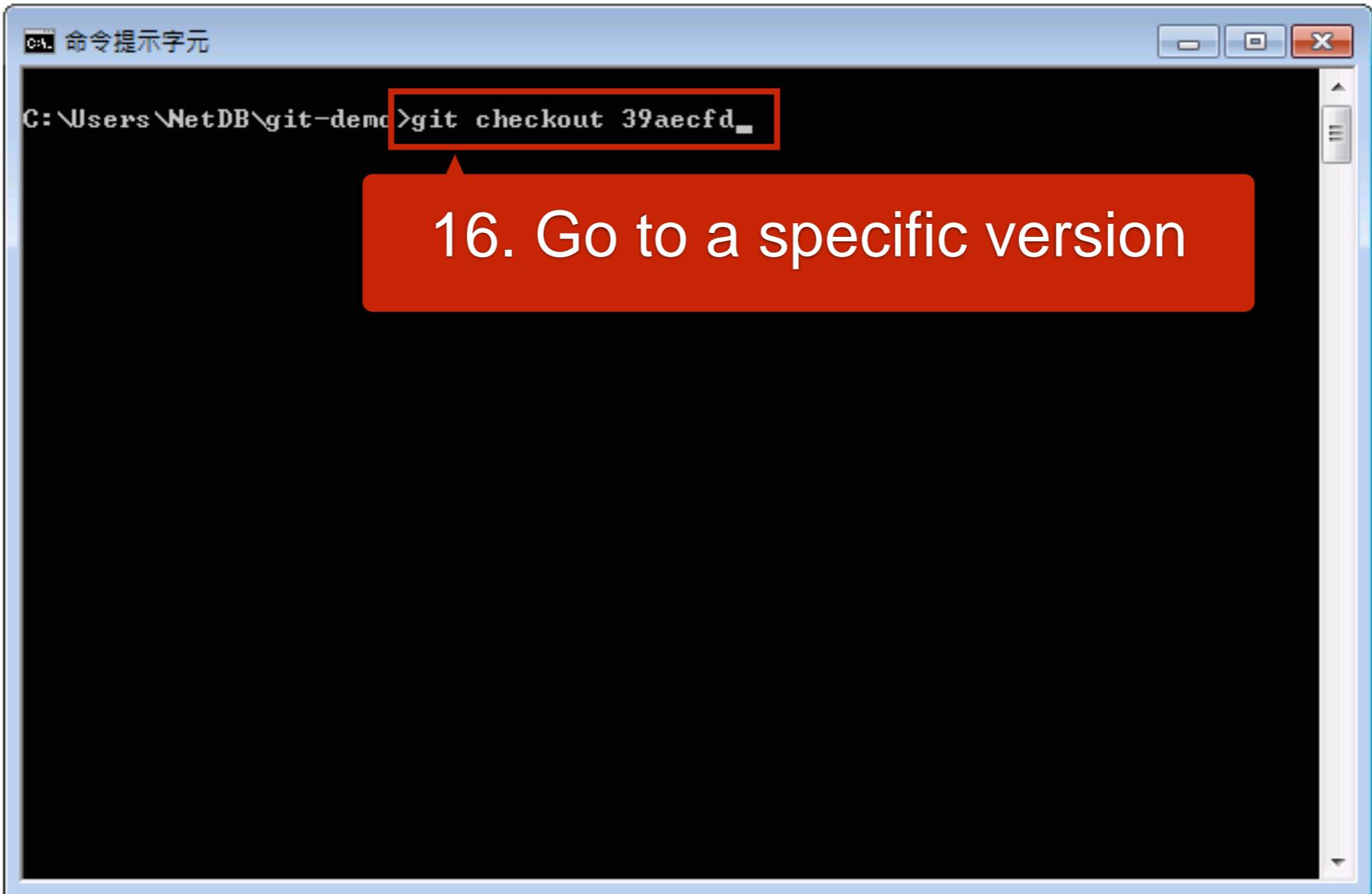
```
C:\Users\NetDB\git-demo>git log --oneline
e134c84 version 2
39aecfd version 1
```

The output is highlighted with a red box around the command line and a red callout bubble containing the text "15. Show versions with short version ID". A blue arrow points from the word "Version ID" in the top-left to the red box. Another blue arrow points from the red callout bubble to the text "56% shorter!".

15. Show versions with short version ID

56% shorter!

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



```
# 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!

Try yourself (1/2)

- Branching steps
 - Creating a new branch

`git branch [branch name]`

- Checking out the branch

`git checkout [branch name]`

Try yourself (2/2)

- Merging steps
 - Checking out a branch to merge

```
git checkout [branch 1 name]
```

- Merging another branch

```
git merge [branch 2 name]
```

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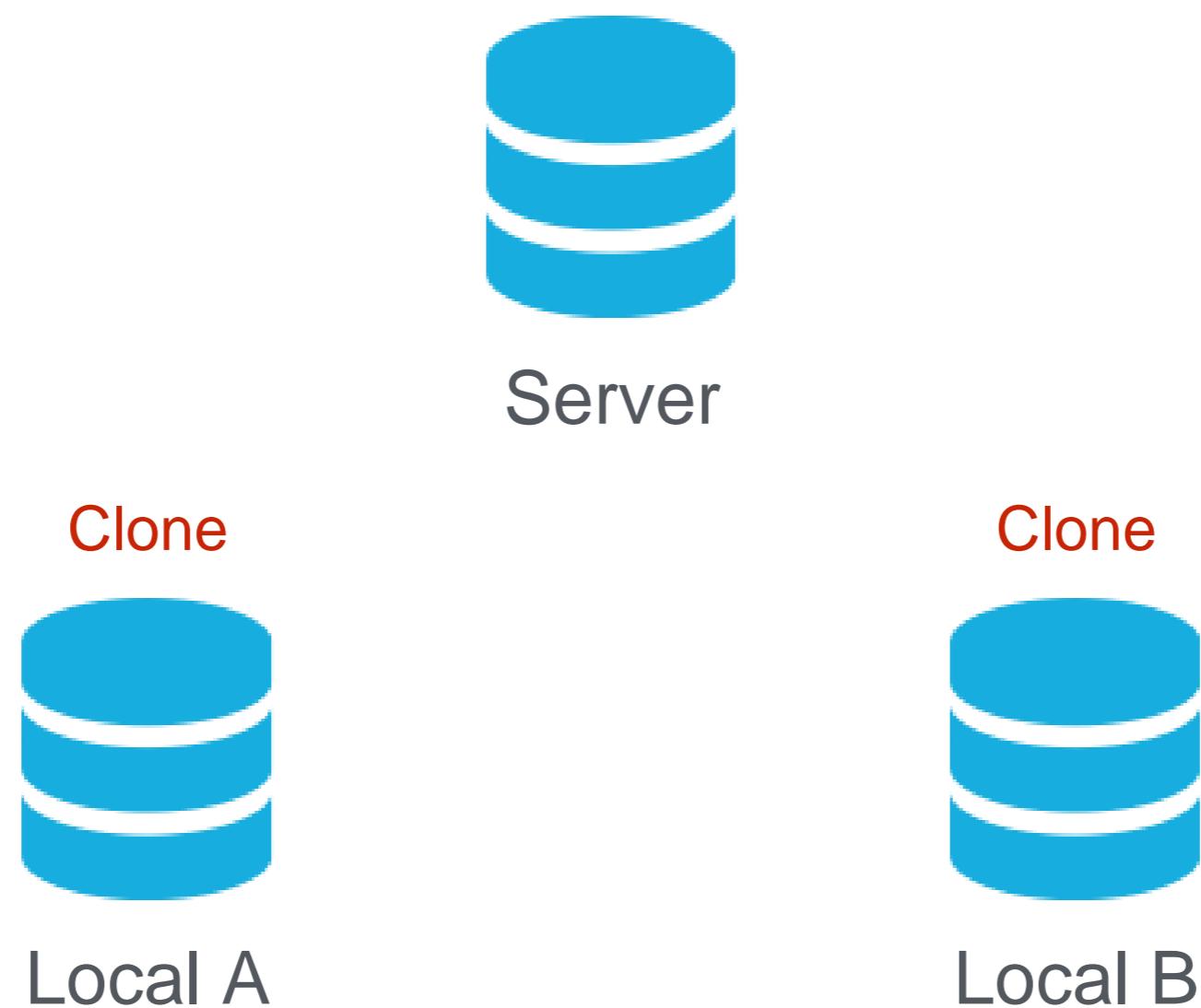
Collaboration

- 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 to their computer and do their jobs independently.

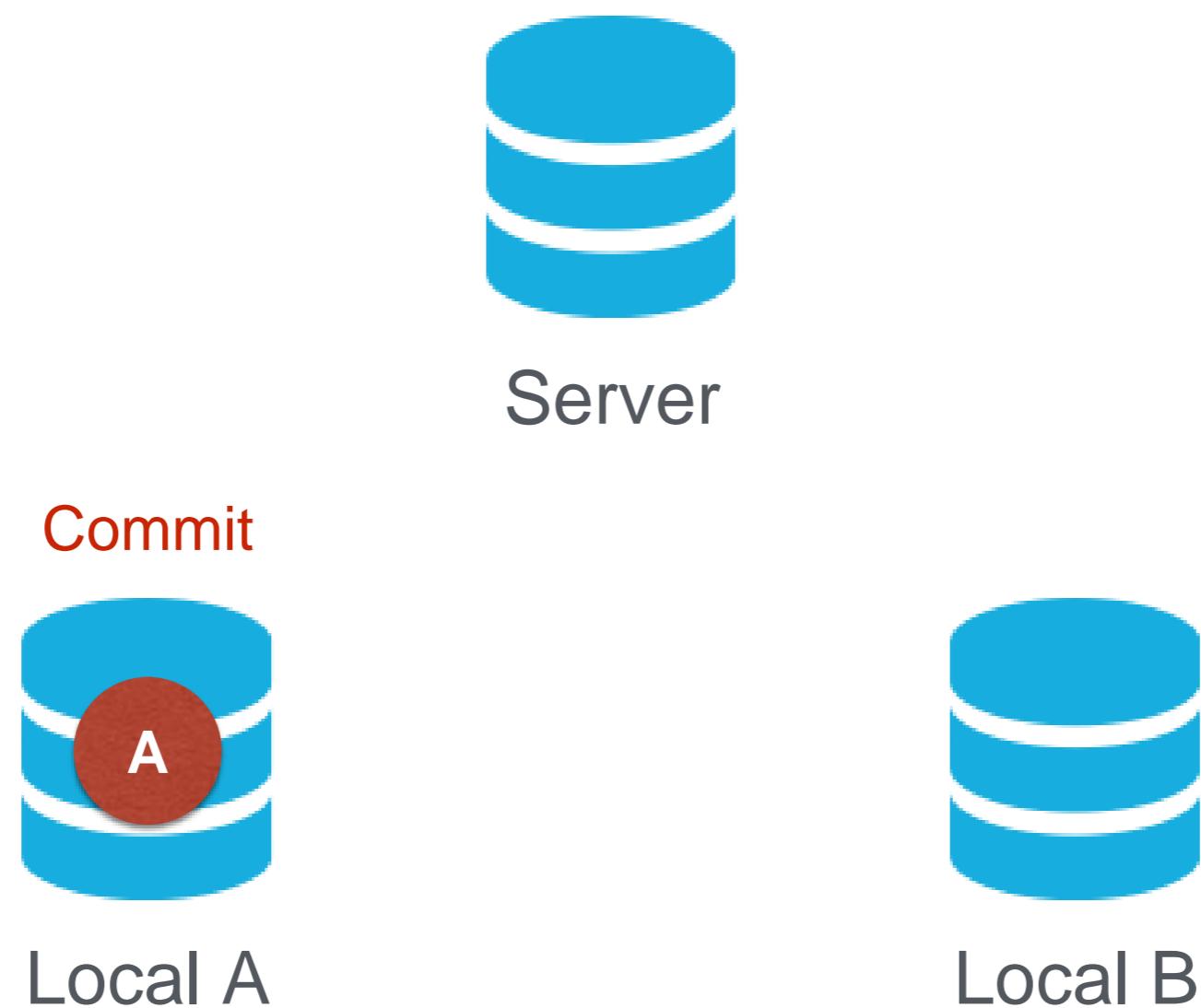
Collaboration Workflows (1/2)

1. If you don't have the project, *clone* (download) the repository from the server.
2. Do your work and commit the changes at local. Once done, *push* (upload) the repository to the server.
3. If someone else modified the project, you can *pull* (sync) the repository to get the updated project.
4. Repeat 2 and 3.

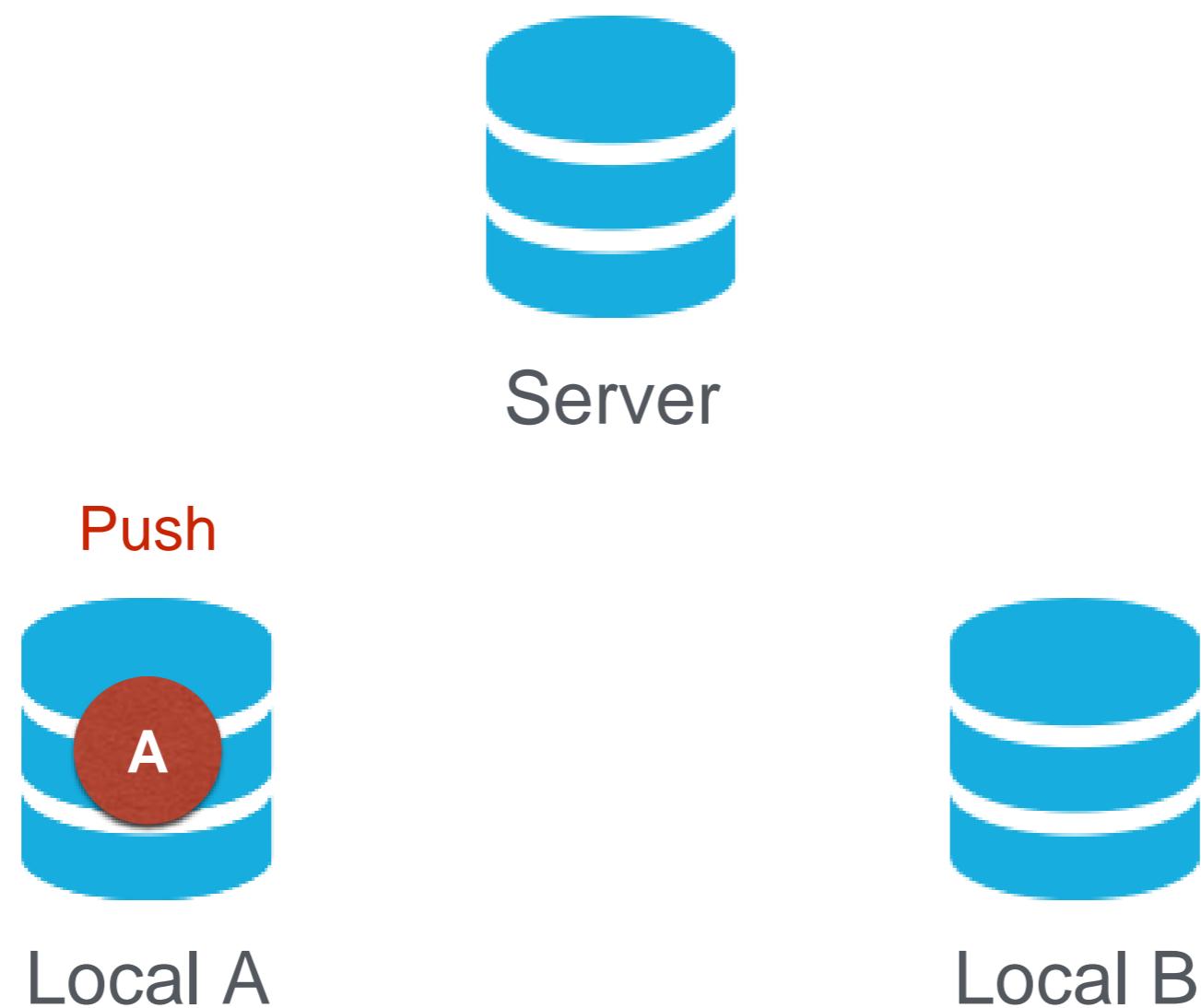
Collaboration Workflows (2/2)



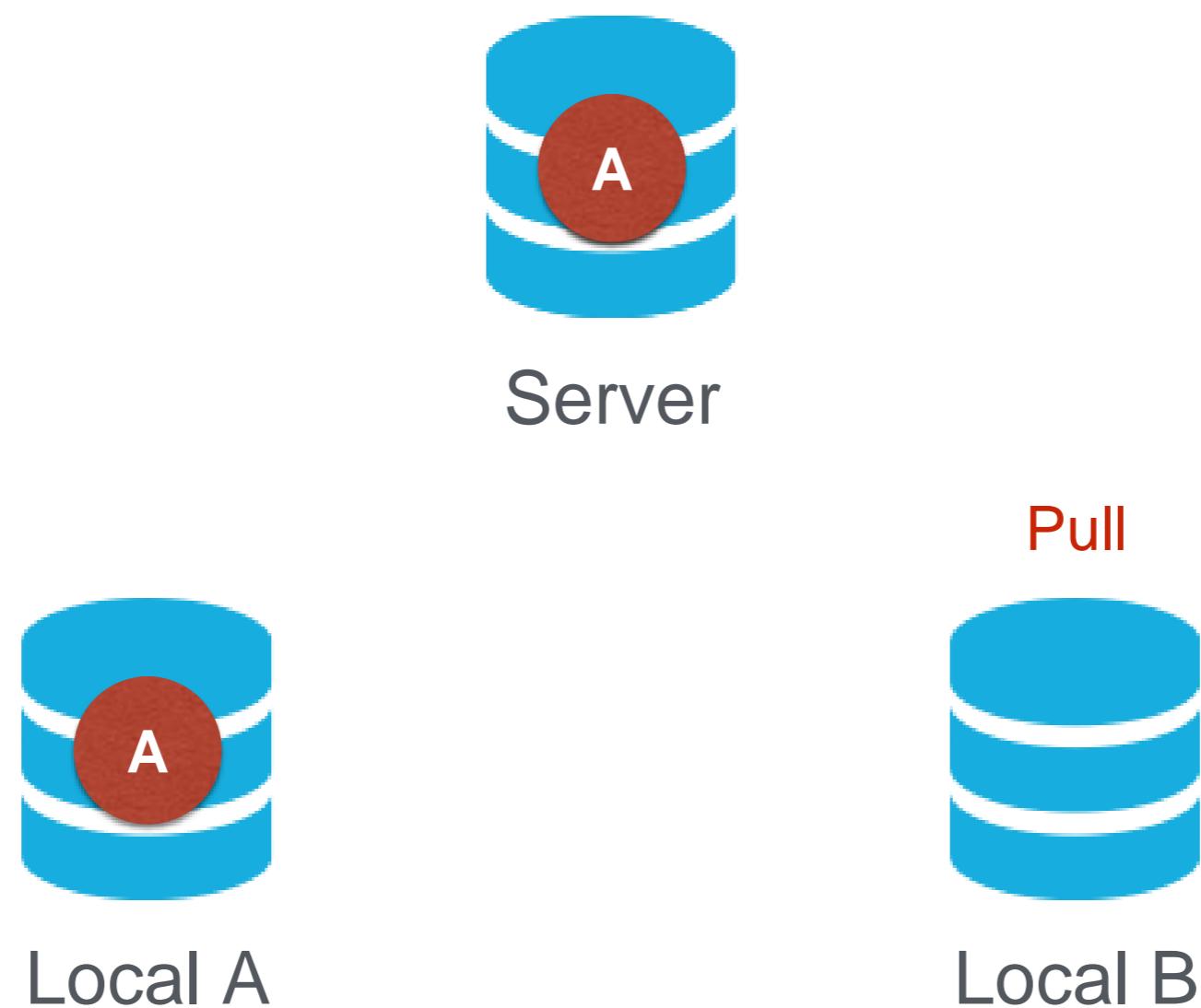
Collaboration Workflows (2/2)



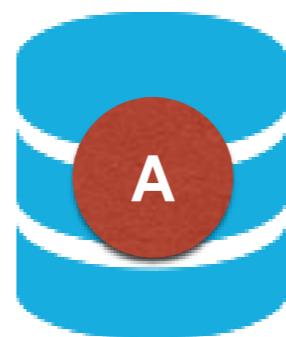
Collaboration Workflows (2/2)



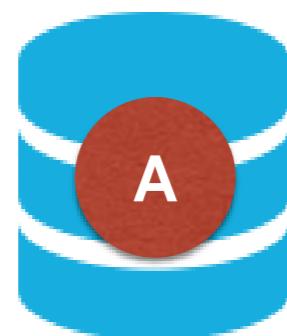
Collaboration Workflows (2/2)



Collaboration Workflows (2/2)

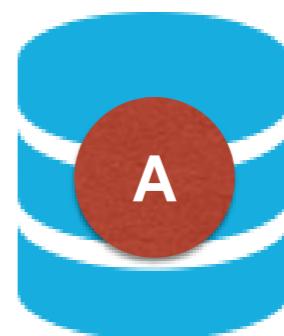


Server



Local A

Pull



Local B

Why Authentication Failed?

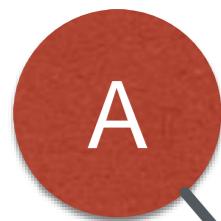
Collaboration Workflow

- If you tried to clone the code template from a server and want to push the modified file.
 - You will get authentication failed.
 - It's because it was a project of others, which means you are not able to save the changes back to the server.
- So, how can I copy a project from others on a open source platform like Github?

Introducing
Fork



Original Project



Forked Project



Forked from Red

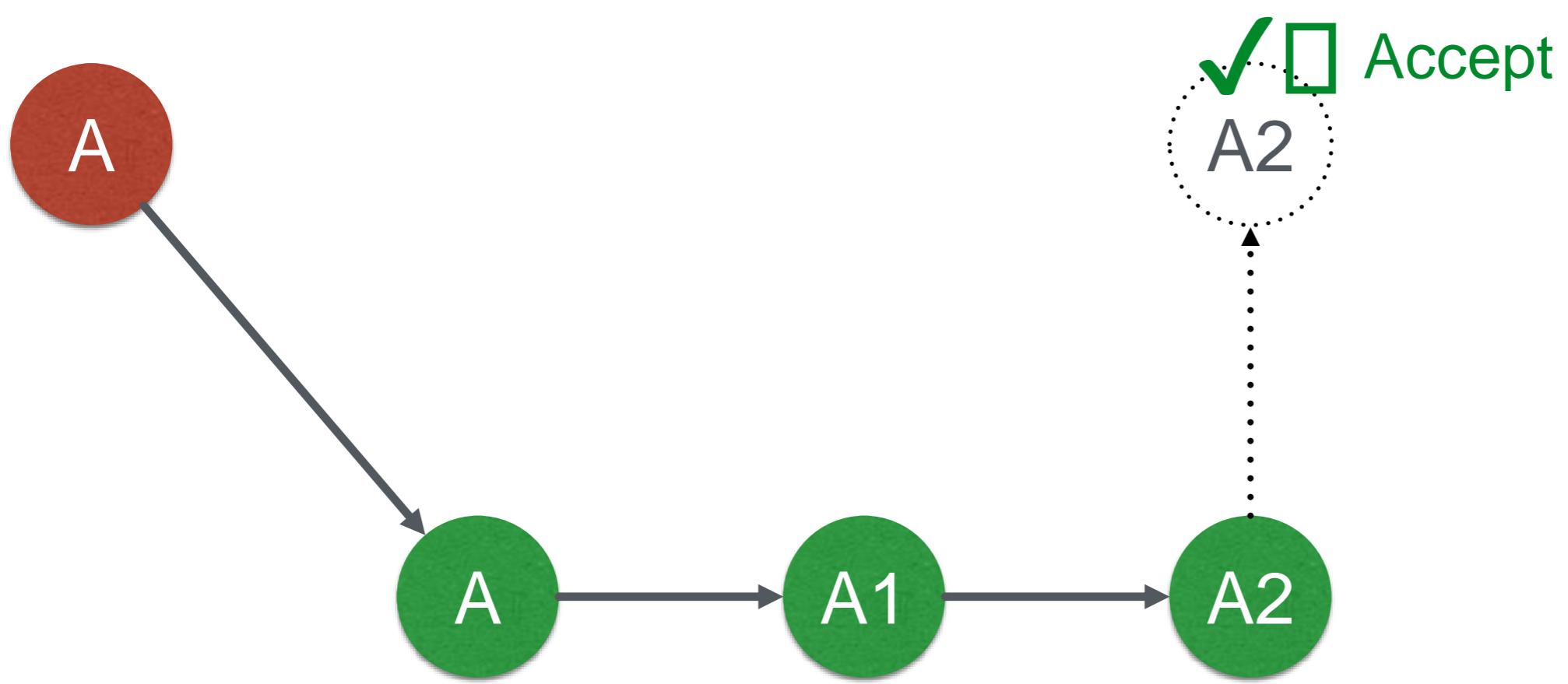


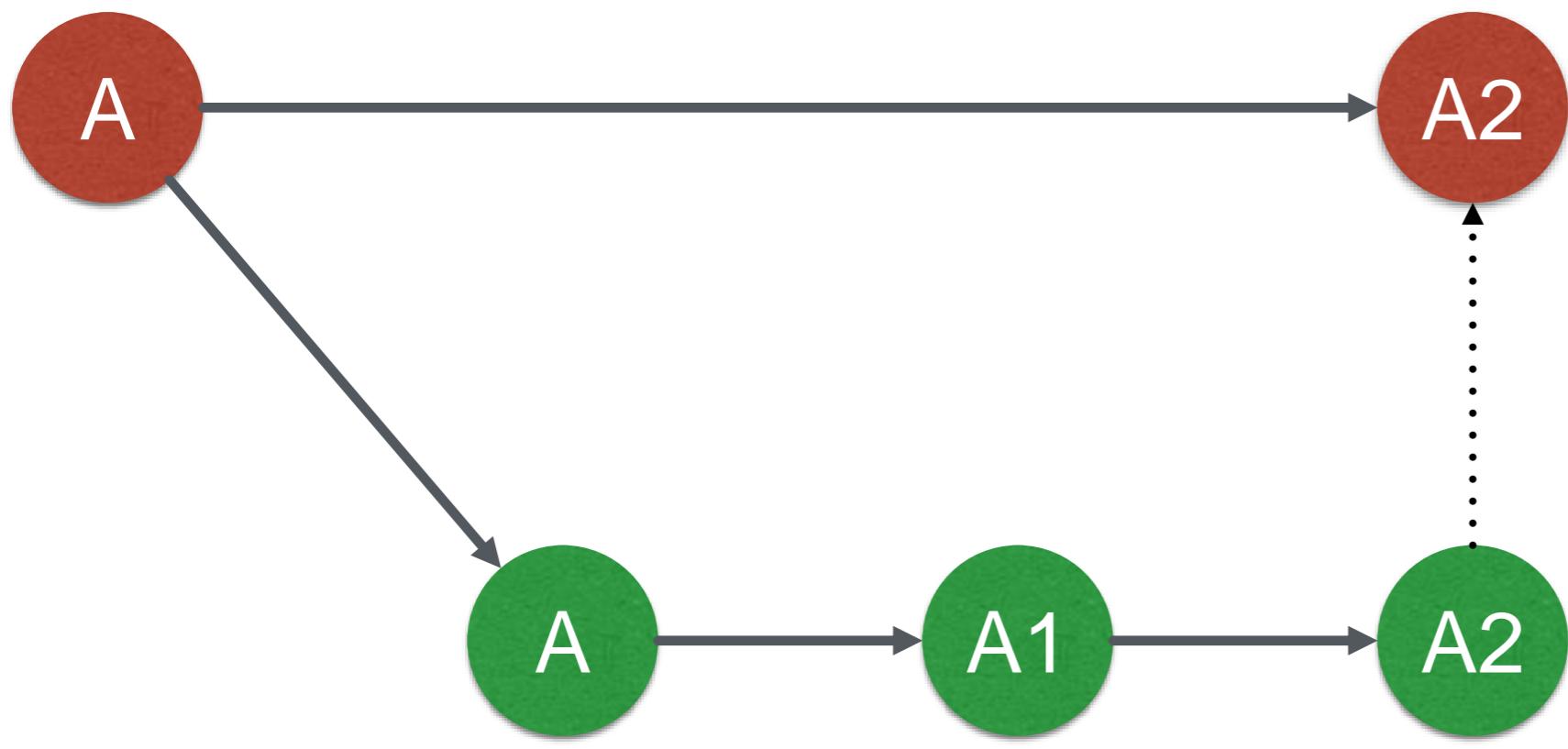
Commit

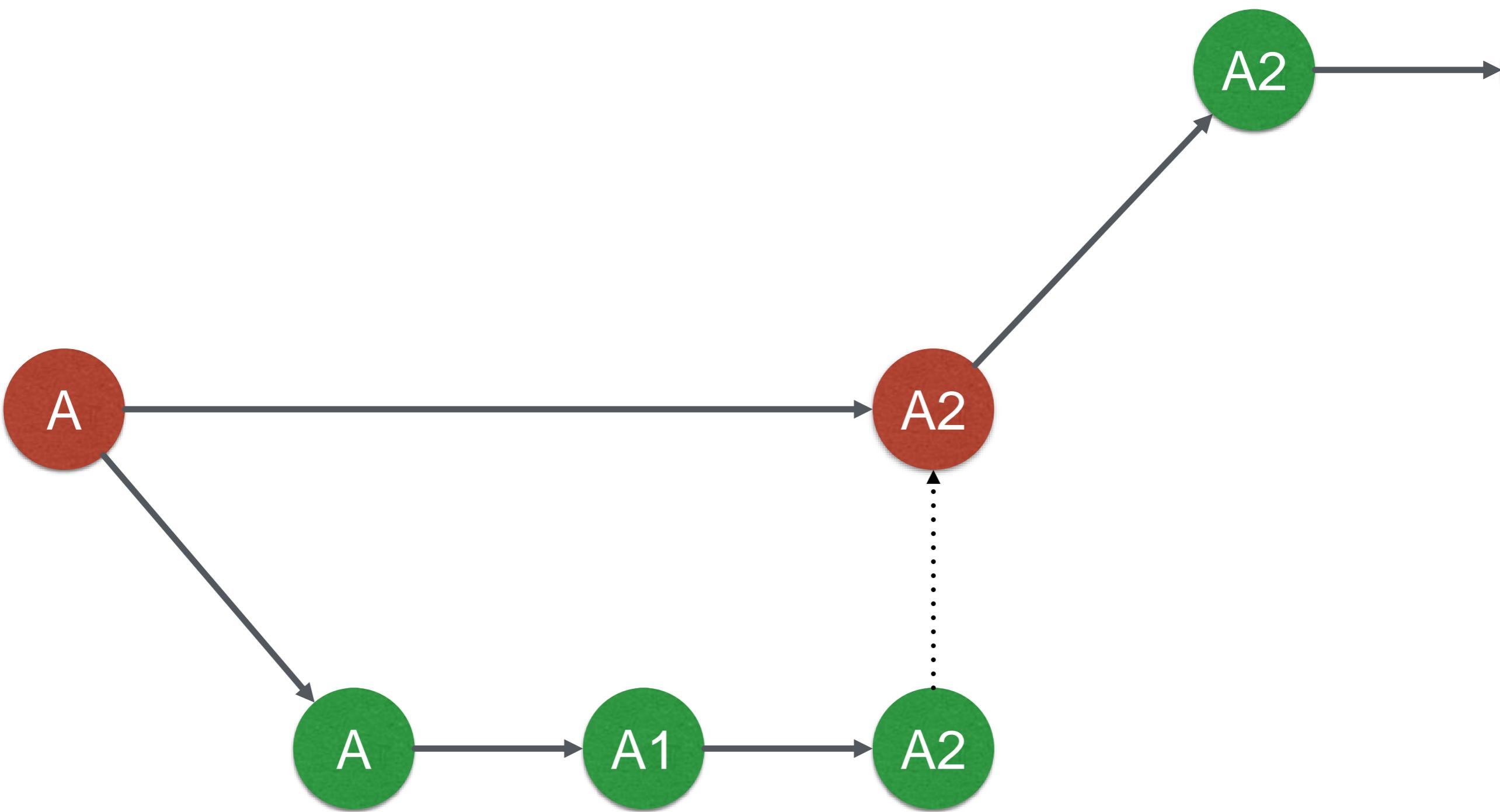


Commit

Open a Merge Request







Git Collaboration Workflow

1. *Fork* a repository to make a copy of it.
2. *Clone* the repository you forked to your workspace.
3. Do your work and *commit* the changes in your workspace.
4. *Push* the repository to the server to synchronize them.
5. Open a *merge request* to origin repository .

Basic Git Commands (2/2)

- **git clone [url]**
 - Clone a repository from remote server
- **git push [url] [branch-name]**
 - Push committed file to remote server

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Gitlab

- We have created account for you
- Account: student ID (e.g. 106012345)
- Password: webapp+studentID (e.g. webapp106012345)

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
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You can access course projects in this group

GitLab

Go to dashboard

Group

Activity

Milestones

Issues 0

Merge Requests 0

Members

ss-student

courses-software-studio-2017-spring

Search 0 + ↗

Atom icon

courses-software-studio-2017-spring ☀

@courses-software-studio-2017-spring

All Projects Filter by name Last updated ▾

S submission-exercise

Filter by name Last updated ▾

The screenshot shows a GitLab interface for a group named "courses-software-studio-2017-spring". The main header features a blue atom icon. Below it, the group name is displayed along with a search bar, a notification badge (0), and a plus sign for creating new projects. The "All Projects" tab is selected, showing a single project titled "submission-exercise". A "Members" section on the left lists a user named "ss-student" with a blue profile picture. The sidebar on the left includes links for Go to dashboard, Group, Activity, Milestones, Issues (0), Merge Requests (0), and Members.



GitLab

Go to group

Project

Activity

Files

Commits

Graphs

Milestones

Issues 0

Merge Requests 0

Labels

Wiki

Forks

courses-software-studio-2017-spring / submission-exercise ▾

Search

0 + ↗



S

submission-exercise 🔒

Star

0

Fork

0

HTTP ▾

<https://shwu10.cs.nthu.edu.tw/>

Global ▾

1. Click to fork

1 commit

109 branches

0 tags

0.48 MB

b1e0571c add README · about 4 hours ago by realwei

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 a lab or a project.

Try It !!

1. Fork this project.
2. Clone the project from GitLab to your local environment.
3. Add a new file and write something.
4. Commit your work.
5. Push your work to GitLab.
6. Open a merge request to the original repository.
 - Source branch: Your working branch.
 - Target branch: The branch with your student id. (e.g. [104062987](#))
 - Title: **Student ID Submission** (e.g. [104062987 Submission](#)).
 - You can choose arbitrary branch if your branch doesn't exist.



ss-student

<



GitLab

Go to dashboard

Project

Activity

Files

Commits

Graphs

Milestones

Issues 0Merge Requests 0

Members

Labels

Wiki

Forks

Settings

Software Studio Student / submission-exercise ▾

Search

0 + ↗

2. Check if this repository is under your account

S

3. Go to Settings

submission-exercise 🔒

Forked from courses-software-studio-2017-spring

Star

0

HTTP ▾

<https://shwu10.cs.nthu.edu.tw/ss-student/>

Global ▾

1 commit

109 branches

0 tags

0.09 MB

Add Changelog

Add License

Add Contribution guide

b1e0571c add README · about 5 hours ago by realwei

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<



Go to project

Project Settings

Groups

Deploy Keys

Webhooks

Services

Protected Branches

Project settings

Project name

submission-exercise

Project description
(optional)

Default Branch

4. Set project to private

Private

Project access must be granted explicitly to each user.

Internal

The project can be cloned by any logged in user.

Tags

Separate tags with commas.

Features:

Issues

Lightweight issue tracking system for this project

Merge Requests

Submit changes to be merged upstream

Builds

Test and deploy your changes before merge

Wiki

Pages for project documentation

Snippets



<



GitLab

Go to project

Project Settings

Groups

Deploy Keys

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Software Studio Student / submission-exercise · Settings

Search

0 + ↗

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Test and deploy your changes before merge

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Pages for project documentation

 Snippets

Share code pastes with others out of git repository

Project avatar:

You can upload a project avatar here

5. Scroll down and save changes



ss-student

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GitLab

[Go to dashboard](#)[Project](#)[Activity](#)[Files](#)[Commits](#)[Graphs](#)[Milestones](#)[Issues](#)

0

[Merge Requests](#)

0

[Members](#)[Labels](#)[Wiki](#)[Forks](#)[Settings](#)

Software Studio Student / submission-exercise ▾

 Search

0 + ↗



S

submission-exercise 🔒

Forked from courses-software-studio-2017-spring

[Star](#)

0

2. Copy the link

HTTP ▾

<https://shwu10.cs.nthu.edu.tw/ss-student/>

Global ▾

1. Choose HTTP

branches

0 tags

0.09 MB

[Add Changelog](#)[Add License](#)[Add Contribution guide](#)

b1e0571c add README · about 5 hours ago by realwei

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 a lab or a project.

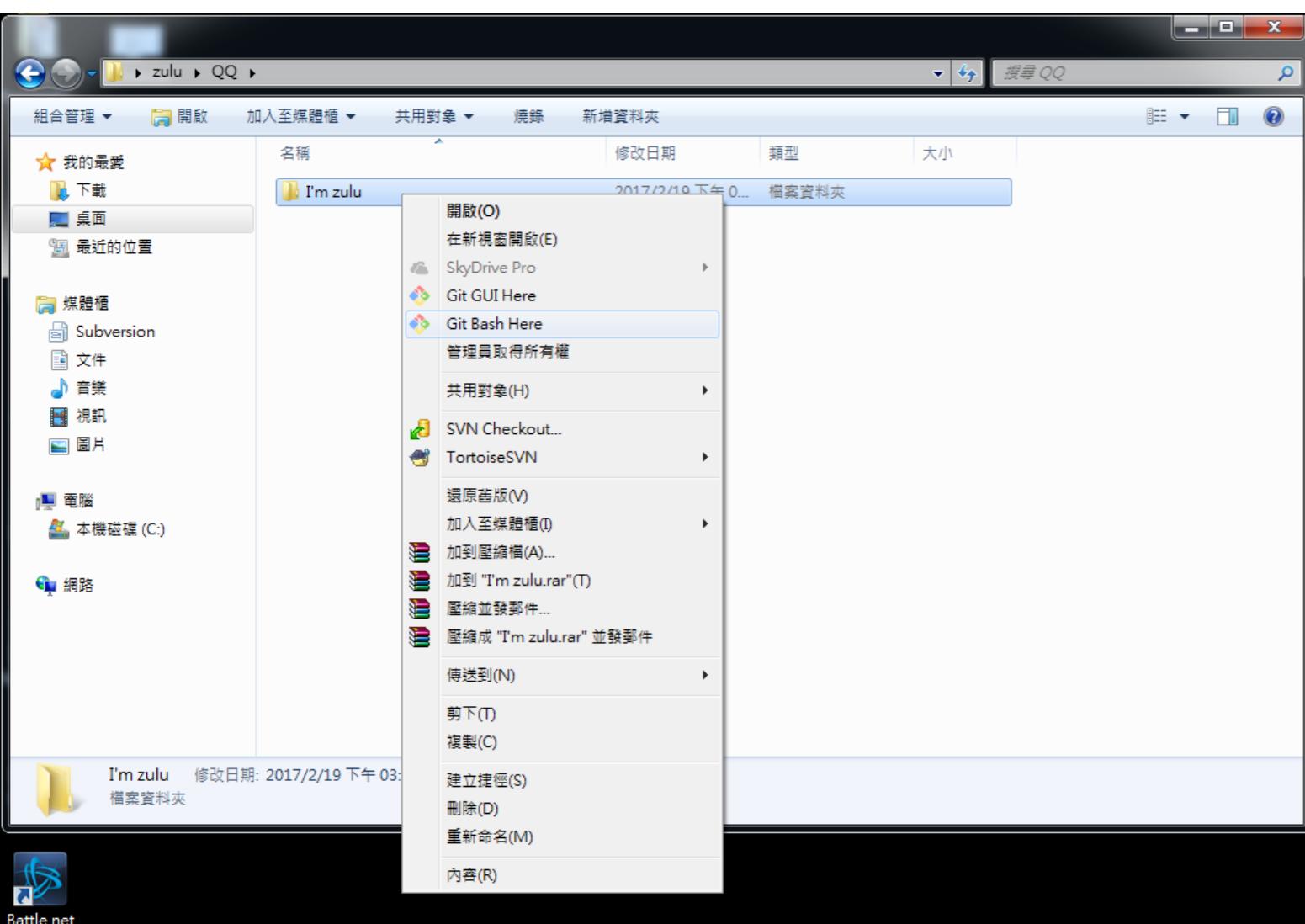
Try It !!

1. Fork this project.
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 - Source branch: Your working branch.
 - Target branch: The branch with your student id. (e.g. [104062987](#))
 - Title: [Student ID Submission](#) (e.g. [104062987 Submission](#)).



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If You use Windows



A screenshot of a terminal window titled 'MINGW64:/c/Users/EdwinYeh/QQ/I'm zulu'. The window shows a command-line interface with the user 'EdwinYeh@NetDb_EdwinYeh' and the path 'MINGW64 ~/QQ/I'm zulu'. A single dollar sign (\$) is displayed at the prompt, indicating where the user can type commands.

3. Create a folder to put your repos

```
~/SS-Projects ➔ git clone https://shwu10.cs.nthu.edu.tw/ss-student/submission-exercise.git  
Cloning into 'submission-exercise'...  
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.  
~/SS-Projects ➔ ls  
submission-exercise  
~/SS-Projects ➔
```

4. Type "git clone {URL}"

5. The repo has been successfully cloned

Workflow

- For each lab, you should follow the workflow below
 1. Fork our template repository on Gitlab
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```
~/SS-Projects/submission-exercise master vim lab1.js  
~/SS-Projects/submission-exercise master git add -A  
~/SS-Projects/submission-exercise master + git status  
On branch master  
Your branch is up-to-date with 'origin/master'.  
Changes to be committed:  
(use "git reset HEAD <file>..." to unstage)
```

1. -A means all files

```
new file: lab1.js
```

```
~/SS-Projects/submission-exercise master + git commit -m "Finish lab1"  
[master c1acaf4] Finish lab1  
 1 file changed, 1 insertion(+)  
 create mode 100644 lab1.js  
~/SS-Projects/submission-exercise master
```

2. Check if your file is added to git

3. Commit your changes

```
~/SS-Projects/submission-exercise ➤ master ➤ vim lab1.html
~/SS-Projects/submission-exercise ➤ master ➤ git add -A
~/SS-Projects/submission-exercise ➤ master + ➤ git commit -m "Finish lab1"
[master 8a603d9] Finish lab1
Committer: Real Wei <realwei@Realweis-MBP.local>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

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

After doing this, you may fix the identity used for this commit with

git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 lab1.html
~/SS-Projects/submission-exercise ➤ master ➤
```

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

- 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

```
~/SS-Projects/submission-exercise ➤ ⚡ master ➤ git push -u origin master  
Counting objects: 6, done.  
Delta compression using up to 4 threads.  
Compressing objects: 100% (4/4), done.  
Writing objects: 100% (6/6), 497 bytes | 0 bytes/s, done.  
Total 6 (delta 1), reused 0 (delta 0)  
To https://shwu10.cs.nthu.edu.tw/ss-student/submission-exercise.git  
  b1e0571..8a603d9  master -> master  
Branch master set up to track remote branch master from origin.  
~/SS-Projects/submission-exercise ➤ ⚡ master ➤
```

Type "git push -u origin master"

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



GitLab

[Go to dashboard](#)[Project](#)[Activity](#)[Files](#)[Commits](#)[Graphs](#)[Milestones](#)[Issues](#)

0

[Merge Requests](#)

0

[Members](#)[Labels](#)[Wiki](#)[Forks](#)[Settings](#)

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Software Studio Student / submission-exercise ▾

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S

submission-exercise 🔒

Forked from courses-software-studio-2017-spring

[Star](#)

0

HTTP ▾

<https://shwu10.cs.nthu.edu.tw/ss-student/>

Global ▾

1. Click Merge Requests

2 commits

109 branches

0 tags

0.17 MB

[Add Changelog](#)[Add License](#)[Add Contribution guide](#)

14e22e1c Finish lab1 · 4 minutes ago by Software Studio Student

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 a lab or a project.

Try It !!

1. Fork this project.
2. Clone the project from GitLab to your local environment.
3. Add a new file and write something.
4. Commit your work.
5. Push your work to GitLab.
6. Open a merge request to the original repository.
 - Source branch: Your working branch.
 - Target branch: The branch with your student id. (e.g. [104062987](#))
 - Title: [Student ID Submission](#) (e.g. [104062987 Submission](#)).



GitLab

[Go to dashboard](#)

Project



Activity



Files



Commits



Graphs



Milestones



Issues

0



Merge Requests

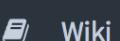
0



Members



Labels



Wiki



Forks



Settings



ss-student

Software Studio Student / submission-exercise · Merge Requests



Search

0



Open 0

Merged 0

Closed 0

All 0

Filter by name ...

+ New Merge Request

Author

Assignee

Milestone

Label

2. New merge request

No merge requests to show



GitLab

Go to dashboard



Project



Activity



Files



Commits



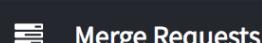
Graphs



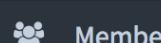
Milestones



Issues 0



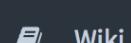
Merge Requests 0



Members



Labels



Wiki



Forks



Settings



ss-student

Software Studio Student / submission-exercise > Merge Requests

New Merge Requests

Source branch

ss-student/submission-exercise master

Finish lab1 14e22e1c Software Studio Student authored 8 minutes ago Browse Files »

Target branch

courses-software-studio-2017-s... 105062558 b1e0571c realwei authored about 6 hours ago Browse Files »

Compare branches and continue

3. Choose the branch you pushed in your repo

4. Choose the branch named after your ID

5. Compare branches



Go to dashboard

Project

Activity

Files

Commits

Graphs

Milestones

Issues 0

Merge Requests 0

Members

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ss-student

Software Studio Student / submission-exercise · Merge Requests

Search

0 + ↗

New Merge Request

From ss-student/submission-exercise · Merge Requests

sion-exercise:105062558

Change branches

6. Set title to "{ID} Submission"

Title 105062558 Submission

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

Description

Write Preview

↗ Edit in fullscreen

Markdown tip: Blocks of code can be denoted by three backticks ` `` or four leading spaces

.Attach a file

Source branch

master

Target branch

105062558

Change branches

Submit merge request

Cancel

7. If everything is OK, submit your merge request

Commits 1

Changes 1

Most recent commits displayed first

18 Feb, 2017

Finish lab1

1 commit

Software Studio Student authored 24 minutes ago

14e22e1c

Browse Files »

Notice



gitlab



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好手氣



gitlab



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工具

約有 8,300,000 項結果 (搜尋時間 : 0.45 秒)

GitLab

<https://gitlab.com/> ▾ 翻譯這個網頁

這項網站搜尋結果說明因為網站的 robots.txt 而無法提供
瞭解詳情

GitLab.com | GitLab

<https://about.gitlab.com/gitlab-com/> ▾ 翻譯這個網頁

GitLab.com. unlimited free repositories and collaborators. Sign Up. Free public & private repositories
and unlimited collaborators. Runs GitLab Enterprise Edition ...

GitLab介紹— Practical guide for git users 0.1 文档

<git-tutorial.readthedocs.io/zh/latest/gitlab.html> ▾

GitLab介紹¶. 目前最流行的線上Git專案管理系統可以說是非GitHub 莫屬，對於一般OpenSource的專案
選擇使用GitHub做為線上Git專案管理系統即可，也免收任何 ...

GitHub - gitlabhq/gitlabhq: GitLab CE | Please open new issues in our ...

<https://github.com/gitlabhq/gitlabhq> ▾ 翻譯這個網頁

README.md. GitLab. Build status CE coverage report Code Climate Core Infrastructure Initiative Best
Practices. Canonical source. The canonical source of ...

Gitlab - 維基百科，自由的百科全書 - Wikipedia

<https://zh.wikipedia.org/zh-tw/Gitlab> ▾

GitLab是一個利用Ruby on Rails開發的開源應用程式，實現一個自代管的Git專案倉庫，可通過Web介面
進行存取公開的或者私人專案。它擁有與GitHub類似的功能， ...



GitLab.com

GitLab.com offers free unlimited (private) repositories and unlimited collaborators.

- [Explore projects on GitLab.com](#) (no login needed)
- [More information about GitLab.com](#)
- [GitLab.com Support Forum](#)

By signing up for and by signing in to this service you accept our:

- [Privacy policy](#)
- [GitLab.com Terms](#).

[Sign in](#) [Register](#)

Username or email

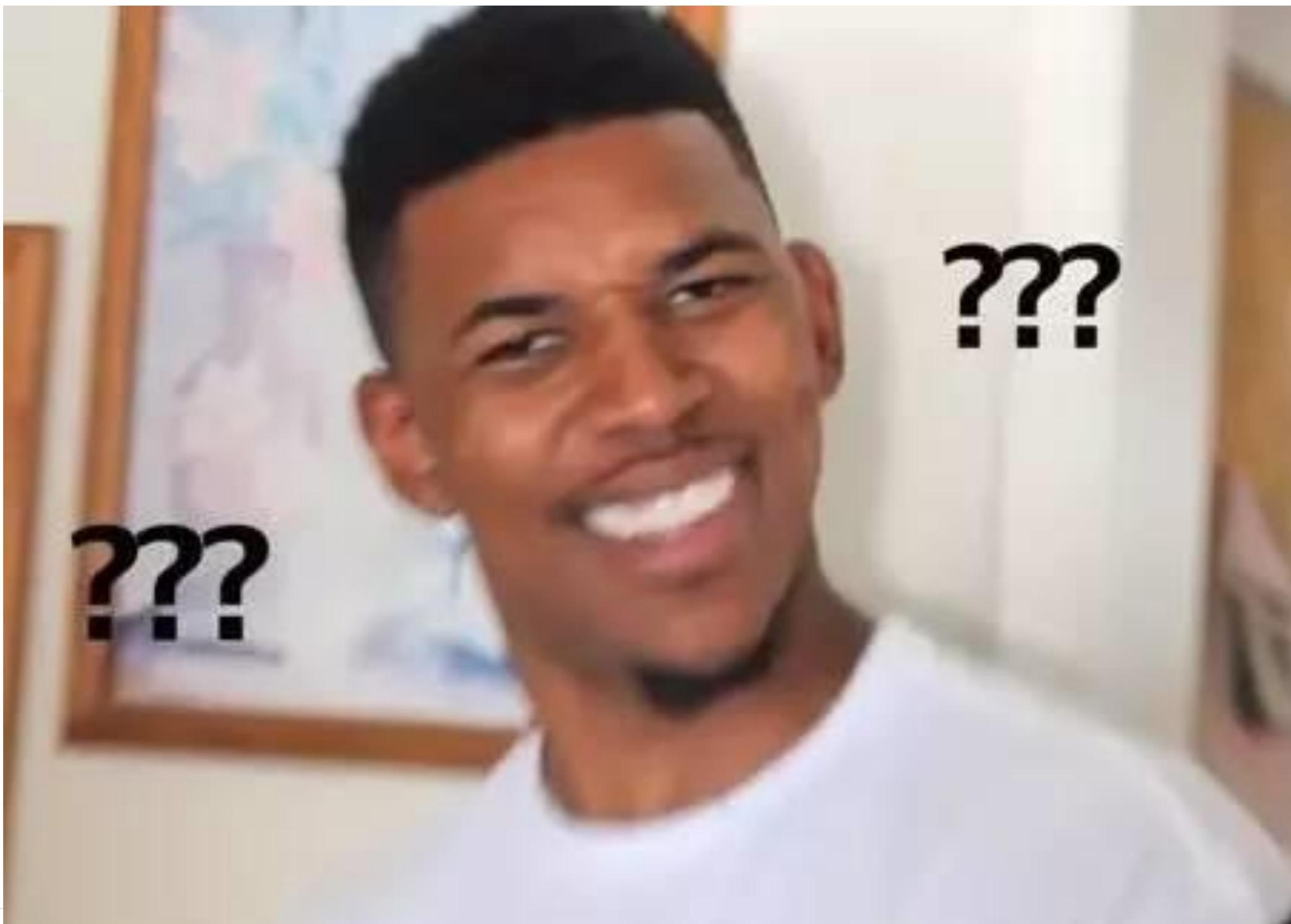
Password

Remember me [Forgot your password?](#)

[Sign in](#)

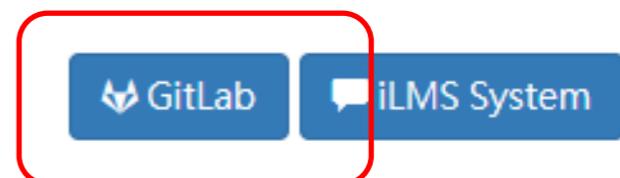
Didn't receive a confirmation email? [Request a new one.](#)

Sign in with



Resources

Here are some course materials and resources related to this course. For code and its details (such as assigned reading, project links, quiz, etc.) please refer to the GitLab. For online forum please refer to the iLMS system.



Here!!!!!

Outline

- General Rule
- Introduction to Git
 - Version control
 - Git Basics
 - Try Git!
 - Remote Repositories
- How to Submit Your Code to Gitlab
- Tools & References

Tools

- Git GUI
 - GitKraken
- Editor / IDE
 - Visual Studio Code
 - Atom
 - Sublime Text
 - Brackets
 - Notepad++
 - Webstorm



axosoft

GitKraken

Repositories > GitKraken > master

Viewing 112/151 Show All

LOCAL (7/11)

- fancier-refbar-changes
- fancy-responsive-refbar-it... 42 ↗ 99+
- graph-color-test
- hopscotch 24 ↗ 99+
- init-repo-gitignore-typeahead
- invite-system 6 ↗ 99+
- jars-view-file-history
- master 5 ↗
- remote-panel-redesign 15 ↗ 13+
- settings-theme-styling
- view-file-history 24 ↗ 99+

REMOTE (6/41)

- Jeff-Schinella (0/1)
- Jordan-Wallet (0/7)
- Justin-GK (0/1)
- Ken-Price (0/2)
- Kyle-Smith (2/8)
- Max-Korp (0/2)
- Sjepan-Rajko (0/8)
- ayresa (0/3)
- cbargen (0/5)
- origin (4/4)

TAGS (99/99)

Fix un/stageall and stashing
Keep rename detection stage/unstage all
Bump to version 0.1.40
Merge pull request #597 from johnhaley81/fix-dispat...
Merge pull request #594 from Mr-Wallet/nicer-ref-nam...
Fix `waitFor` bug in dispatcher
Merge pull request #596 from johndavidsparrow/gh-p...
Revised custom variable script and switch
Merge pull request #595 from johndavidsparrow/gh-p...
Resolved edge case where RefNodes could overlap
/universe removal of in-app invite wording
Bump to version 0.1.39
Merge pull request #591 from Mr-Wallet/fix-graph-ref...
Merge pull request #590 from srajko/div-be-gone
Merge pull request #588 from Mr-Wallet/friendlier-app...
Merge pull request #568 from Mr-Wallet/nicer-ref-nam...
Merge pull request #589 from johndavidsparrow/gh-p...
Merge pull request #592 from implausible/FixNSFW
JS tidy up in form-validation.js
Javascript update for /universe
/universe page
added maxwait to updateworkdir debounce
Update NSFW for memory leak
Fix NSFW segfault
Fix flickering GraphRefColumn every time ... 6 days ago
Preventing page reload on default pull click
Eliminate console spam when conflicts exist in a statel...
Upgrading to react-bootstrap v0.24.5

Commit: cca151e6b9e32c3f9209c25131706740050
Parent: 8efe30a11761983173f844900fa5ec5c6be2
Author: John Haley <johnh@axosoft.com>
Author Date: September 30th 2015, 2:54 pm

Bump to version 0.1.40

+ 0 added - 0 deleted ... 2 modified

```

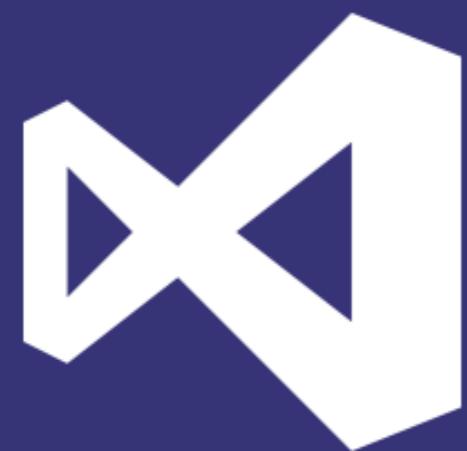
npm-shrinkwrap.json
@@ -1,6 +1,6 @@
 1   1 {
 2   2   "name": "gitkraken",
-3   "version": "0.1.39",
+3   "version": "0.1.40",
 4   4   "dependencies": {
 5   5     "atom-keymap": {
 6   6       "version": "5.1.11",

```

```

package.json
@@ -1,7 +1,7 @@
 1   1 {
 2   2   "name": "gitkraken",
 3   3   "productName": "GitKraken",
-4   "version": "0.1.39",
+4   "version": "0.1.40",
 5   5   "description": "An intuitive git cli
 6   6   "main": "./src/appBootstrap/main.js"
 7   7

```



VS Code

The screenshot shows a code editor interface with a dark theme. On the left is a sidebar titled 'EXPLORE' containing a 'WORKING FILES' section with files like '03.jpg', 'img', 'jquery.dropdown.js', 'jquery.more.js', etc., and a 'TBL-STYLES' section with 'css', 'img', and 'js' sub-sections. The 'js' section contains files such as 'hoverIntent.js', 'jquery.dropdown.js', 'jquery.more.js', 'jquery.more.min.js', 'jquery.plugin.js', 'jquery.plugin.min.js', 'mapper.js', 'maputil.js', and 'navigation.js'. The file 'navigation.js' is currently selected and highlighted in blue. The main editor area displays the following JavaScript code:

```
navigation.js js
1 var scriptbase = _spPageContextInfo.webServerRelativeUrl + "/_layouts/15/";
2
3 $(document).ready(function () {
4     $.getScript(scriptbase + "SP.Runtime.js", function () {
5         $.getScript(scriptbase + "SP.js", function () {
6             $.getScript(scriptbase + "SP.Taxonomy.js", function () {
7                 context = SP.ClientContext.get_current();
8                 //Call your code here.
9                 console.log("Navigation - ready to rock.");
10
11                 // Get default termstore
12
13                 session = SP.Taxonomy.TaxonomySession.getTaxonomySession(context);
14                 termStore = session.getDefaultSiteCollectionTermStore();
15                 context.load(session);
16                 context.load(termStore);
17                 context.executeQueryAsync(
18                     function () {
19                         console.log('Got default term store');
20                     },
21                     function(sender, args) {
22                         console.log('Could not get default term store. ' + args.get_message());
23                     }
24                 );
25
26
27             });
28         });
29     });
30 });
31
32 var topnavbar;
33
34 topnavbar += '<div class="tbl-site-navigation">';
35 topnavbar += '    <ul class="dropdown">';
36 topnavbar += '        <li class=""><a href="#">The Brand Code - a</a></li>';
37 topnavbar += '        <li class="dropdown1">';
38 topnavbar += '            <ul class="sub_menu" style="visibility: hidden;">';
39 topnavbar += '                <li class="large">';
40 topnavbar += '                    <div class="dropdownbox">';
41 topnavbar += '                        <div class="dropdownbox-title">Welcome to the Brand Code</div>';
42 topnavbar += '                        <ol>';
43 topnavbar += '                            <li><a href="">The importance of Brand Building</a></li>';
44 topnavbar += '                            <li><a href="">Introduction to the Brand Code</a></li>';
45 topnavbar += '                            <li><a href="">You and the Brand Code</a></li>';
46 topnavbar += '                        </ol>';
47 topnavbar += '                    </div>';

```



ATOM

A hackable text editor
for the 21st Century

The screenshot shows the Atom code editor interface. On the left is a sidebar with a tree view of project files: build, docs, dot-atom, exports, keymaps, menus, node_modules, resources, script, spec, src (which is selected), and static. The main editor area displays the file 'atom.coffee' with the following content:

```
18
19 # Essential: Atom global for dealing with packages, themes, menus, and the window system.
20 #
21 # An instance of this class is always available as the 'atom' global.
22 module.exports =
23   class Atom extends Model
24     @version: 1 # Increment this when the serialization format changes
25
26     # Load or create the Atom environment in the given mode.
27     #
28     # Returns an Atom instance, fully initialized.
29     @loadOrCreate: (mode) ->
30       startTime = Date.now()
```

The status bar at the bottom of the editor shows the word 'Settings'.

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>

Today's exercise

- Install Git command line tool in your computer.
 - Follow appendix A.
- Try to submit in GitLab.
 - No score but very important!