#### Lab 01 How to Survive & Introduction to Git

Software Studio 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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# Teaching Assistants



Cheng-Hong Lin \*林振弘 Final States of the second se

# How to Find Us?

- Office Hour (TAs)
  - Wed. 3:30-5:20pm at Delta 729
- Email (Personal question only)
  - Cheng-Hong Lin : <u>chlin@datalab.cs.nthu.edu.tw</u>
  - I-Luh Wu : ilwu@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 3/6 23:59
  - Register form : <u>https://goo.gl/KVeKNE</u>
  - After that day we will match the rest student.

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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 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.

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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:
  - 1. Create/modify files
  - 2. Let git monitor the files by *adding* them to staging files.
  - *3. Commit* your changes to and git will create snapshots (versions) of the files for you.

# Git Workflow (2/2)



#### Git Branch



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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.



#### 







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

	×
C:\Users\NetDB>cd git-demo	<b>^</b>
C:\Users\NetDB\git-demo>dir 磁碟區 C 中的磁碟是 WIN7 磁碟區序號: 187B-C5C9	Ш
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 1 個檔室 15 HelloGit.txt	
11. Add HelloGit.txt to staging files	
C:\Users\NetDB\git-demo>git add HelloGit.txt	
C:\Users\NetDB\git-demc>git commit -m "version 1" [master (root-commit) b302dyc] version 1	
1 file changed, 1 insertion(+) create mode 100644 HelloGit.txt 12. Commit your cha	ang
C:\Users\NetDB\git-demo>	

# 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-demc>git add HelloGit.txt

C:\Users\NetDB\git-demc<mark></mark>>git commit -m "version 2" [master e134c84] version 2 1 file changed, 1 insertion(+), 1 deletion(-)

#### 13. Make some changes and save

C:



\git-demo>\_



#### # 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...



#### # 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}



<ul> <li>HelloGit - 記事本</li> <li>檔案(F) 編輯(E) 格式(O)</li> </ul>	□ □ <del>×</del> 檢視(V) 說明(H)	
Hello Version 1	<b>^</b>	
18. Back to	the version	on 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.

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





Server

Commit







Server

Push







Server

Pull







Server

Pull





## 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









### 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.
- *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: cloudb+studentID (e.g. cloudb106012345)

# 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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  - 6. Send merge request of **your branch** to our template repository

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#### You can access course projects in this group

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General	leque		
Members	Lightweight issue tracking system for this project		
Integrations	<ul> <li>✓ Only Project Members</li> </ul>		
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	Only Project Members		
	Merge requests		
	Submit changes to be merged upstream		
	Only Project Members		
	Pipelines		
	Build, test, and deploy your changes		
	Enable feature to choose access level		
	Git Large File Storage 😧		
≪ Collapse sidebar	Manages large files such as audio, video, and graphics files		



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# If You use Windows







#### 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.

4. Type "git clone {URL}"

~/SS-Projects ls

submission-exercise

~/SS-Projects

5. The repo has been successfully cloned

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~/SS-Projects/submission-exercise ~/SS-Projects/submission-exercise ~/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 wit

git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-) create mode 100644 lab1.html ~/SS-Projects/submission-exercise 2 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

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<mark>∼/SS-Projects/submission-exercise )</mark> / master → git push -u origin master						
Counting objects: 6, done.						
Delta compression using up to 4 threads.						
Compressing objects: 100% (4/4), done.						
Vriting 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						
b1e05718a603d9 master -> master						
ranch master set up to track remote branch master from origin.						
~/SS-Projects/submission-exercise // master // // // // // /////////////////////						

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- For each lab, you should follow the workflow below
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https://shwu10.cs.nthu.edu.tw/103060010/submission-exercise/merge\_requests/new

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## Notice



gitlab	Ļ

Google 搜尋 好手氣



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.





Shan-Hung Wu Description Announcement Curriculum - Resources

## 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.



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- How to Submit Your Code to Gitlab
- Tools & References

## Tools

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

# GitKrakon

#### 🗋 Repositories 📏 GitKraken 🗸 🔪 master 🗸



Provide Feedback



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	iquery more is	11 // Get default termstore	
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	jquery.more.min.js	14 termStore = session.getDefaultSiteCollectionTermStore():	
	jquery.plugin.js	15 context.load(session);	
	jquery.plugin.min.js	16 context.load(termStore);	
	mapper.js	17 context.executeQueryAsync(	
	maputil.is	18 function () {	
	navigation is	19 console.log('Got default term store');	
		20 }, 21 function(sender_gras) {	
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		35 topnavbar += ' <ul class="aropaown">';</ul>	
		37 topnavbar += ' <li class="dropdown1">':</li>	
		<pre>38 topnavbar += '<ul class="sub_menu" style="visibility: hidden;">';</ul></pre>	
		<pre>39 topnavbar += '<li class="large">';</li></pre>	
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		41 topnavbar += ' <div class="dropdownbox-title">Welcome to the Brand Code</div> ';	
		42 topnavbar += ' <ol>';</ol>	
		45 topnavbar += ' <li>44 topnavbar += '<li>44 topnav</li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li>	
		45 topnavbar +=' <li><a href="">You and the Brand Code</a></li>	
		46 topnavbar $+=$ '	
		47 topnavbar += '';	
	0 4 10		



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> 🖿 build	atom.coffee • ½ Settings
> 🖬 docs	18
> 🖿 dot-atom	<sup>19</sup> # Essential: Atom global for dealing with packages, themes, menus, and the win
> 🖿 exports	20 <b>#</b>
> 🖿 keymaps	21 # An instance of this class is always available as the `atom` global.
> 🖿 menus	22 module.exports =
> 🖿 node_modules	23 Class Atom extends Model 24 Oversion: 1 # Increment this when the serialization format changes
> 🖿 resources	25
> 💼 script	26 <b># Load or create the Atom environment in the given mode.</b>
> 🖿 spec	27 <b>#</b>
> 🖬 src	28 # Returns an Atom instance, fully initialized.
> 🖬 static	29 @loadOrCreate: (mode) -> 30 startTime = Date.now()

## Reference

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

# Today's exercise

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