CS304 Software Engineering

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Southern University of Science and Technology Slides adapted from cs409

Recap: Git commands

command	description
git clone <i>url [dir]</i>	copy a git repository so you can add to it
git add <i>files</i>	adds file contents to the staging area
git commit	records a snapshot of the staging area
git status	view the status of your files in the working directory and staging area
git diff	shows diff of what is staged and what is modified but unstaged
git help <i>[command]</i>	get help info about a particular command
git pull	fetch from a remote repo and try to merge into the current branch
git push	push your new branches and data to a remote repository
others: init, reset, br	anch, checkout, merge, log, tag

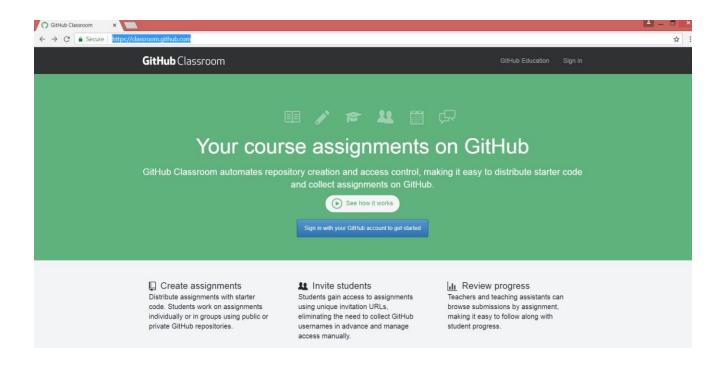
Software required

- Install Git:
 - Use Git for your preferred Operating System/ IDE
 - Git command in Ubuntu: sudo apt-get install git-core
 - Git for windows: https://git-scm.com/download/win
 - EGit for Eclipse: https://www.eclipse.org/egit/
 - *I prefer using Git commands on Ubuntu
- Install Your favourite IDE:
 - IntelliJ IDEA: https://www.jetbrains.com/idea/
 - Eclipse: https://www.eclipse.org/downloads/
 - Android Studio (Project): https://developer.android.com/studio/
 - Netbeans: https://netbeans.org/

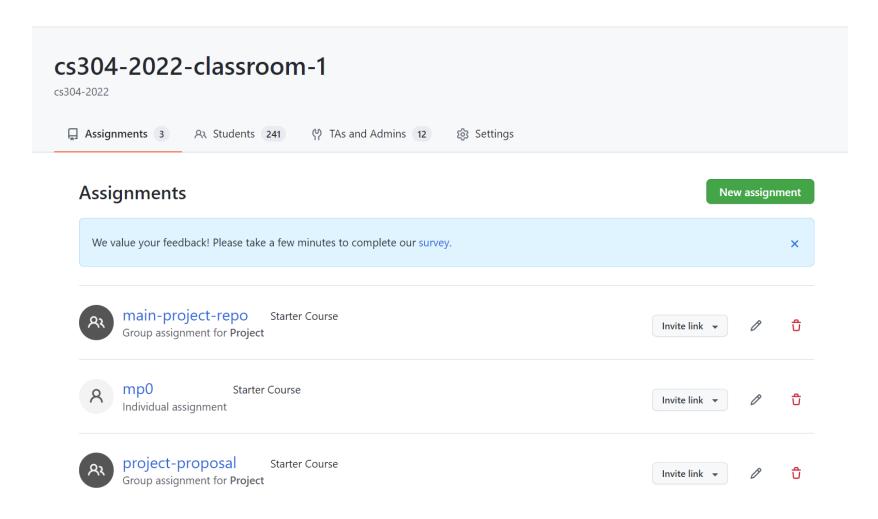
Collaboration through GitHub Classroom

Main Page

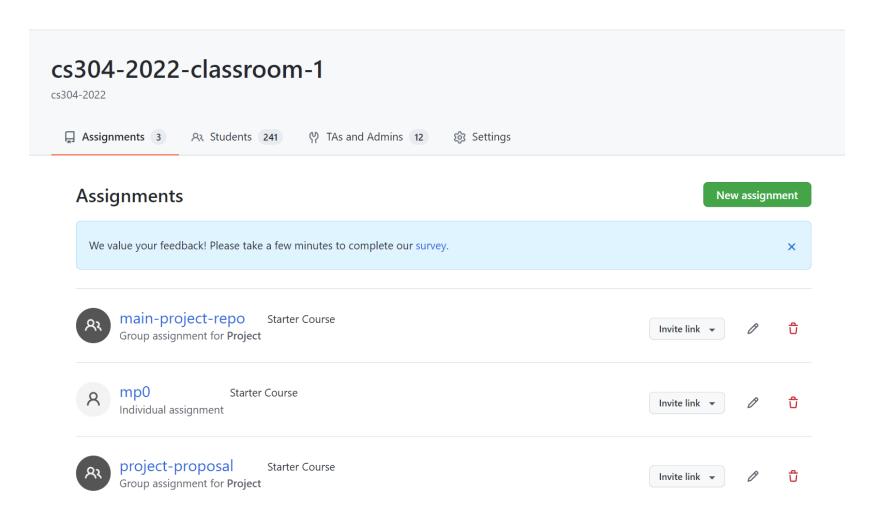
https://classroom.github.com/



Our organization: cs304-2022classroom-1



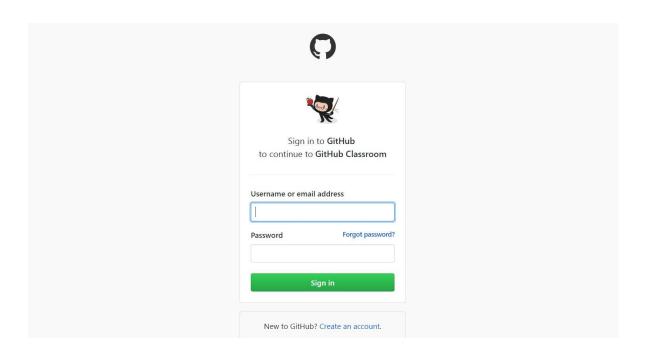
List of Assignments: More coming soon...



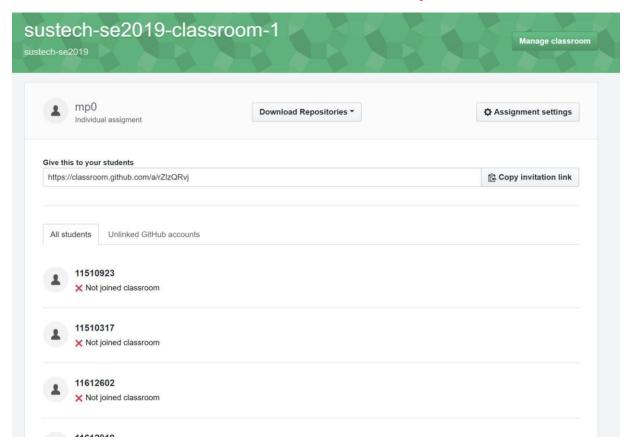
First Assignment: mp0 Step 1: Accept Invitation

- Go to the invitation links:
- https://classroom.github.com/a/NOLWXf2s

Step 2: Sign in to your existing account/ Create New Account



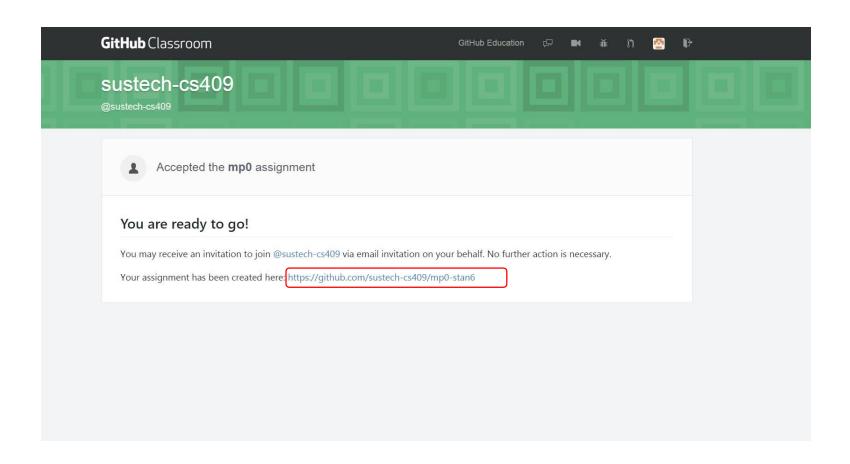
Select Your Student ID (Do not skip)



Please let me know if you have problem selecting your ID in this step:

- Select wrong id
- Your id doesn't exist

Repository created!



Step 3: Get Your Repository in Your local machine

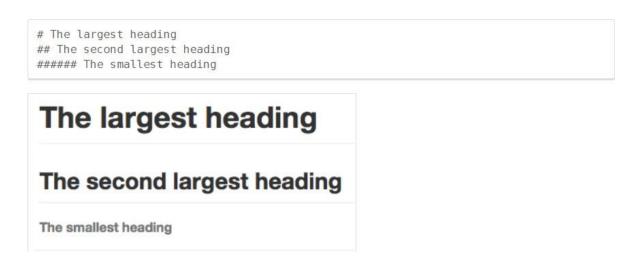
- Use Git from what you learned in previous slides
- Start working on mp0
 - Note: mp0 folder does not contain any starter code!
 Refer to CS304-mp0.pdf for instruction.

GitHub & Git Basics

Writing README.md

Writing and Formatting README.md

Styling headings:



Resource: https://help.github.com/articles/basic-writing-and-formatting-syntax/

Writing and Formatting README.md

Styling text:

Style	Syntax	Keyboard shortcut	Example	Output
Bold	** ** or	command/control + b	**This is bold text**	This is bold text
Italic	* * or _	command/control + i	*This text is italicized*	This text is italicized
Strikethrough	~~ ~~		~~This was mistaken text~~	This was mistaken text
Bold and italic	** ** and		**This text is _extremely_ important**	This text is extremely important

Writing and Formatting README.md

Styling lists:

- George Washington
- John Adams
- Thomas Jefferson
- · George Washington
- John Adams
- · Thomas Jefferson

To order your list, precede each line with a number.

- 1. James Madison
- 2. James Monroe
- John Quincy Adams
- 1. James Madison
- 2. James Monroe
- 3. John Quincy Adams

What if you have some big files that you do not want to commit?

Use GitIgnore

Ignoring files

- GitIgnore file is a file that specifying the files or folders that we want to ignore.
- Several ways to specifying GitIgnore files:
 - 1. Use specific filename. For example, if we want to ignore a file called readme.txt, then we just need to write readme.txt in the .gitignore file.
 - 2. Use the name of the extension. For example, if we want to ignore all .txt files, then write *.txt
 - 3. Use the name of the folder. For example, if we want to ignore folder named test. Then we can just write test/ in the file.
- Save the file as .gitignore
 - The name of the file should be .gitignore

Extra "homework"

- Do you have your own website?
- Do you know that you can build your own personal website using GitHub pages?
 - Refer to: https://pages.github.com/

*Useful for future career:

- Job interviews
 - Give a link to your CV/Resume that could be updated
- Research profile
 - Upload your new research works

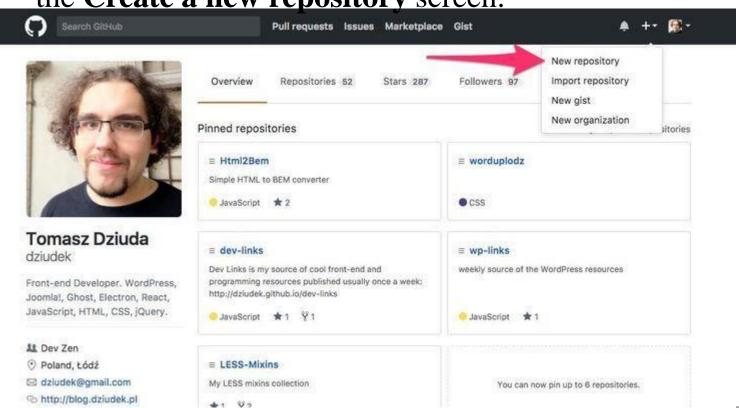
Create Webpage with GitHub Pages

Slides from https://getpublii.com/docs/host-static-website-github-pages.html and http://jmcglone.com/guides/github-pages/

Step 1: Create New Repository

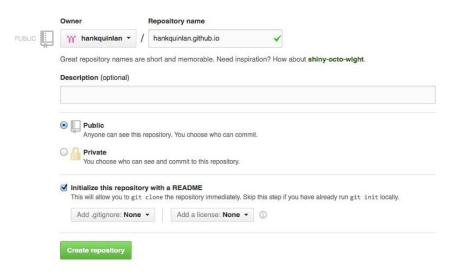
• Log-in to Github, then click the plus icon in the topbar to open a submenu;

• click on the **New repository** option to be taken to the **Create a new repository** screen.



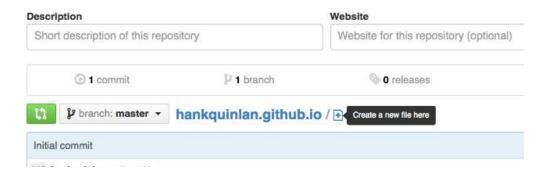
Step 2: Select Repository name

- Name your repository username.github.io, replacing username with your GitHub username.
- Leave the repository as Public (Github Pages are always public, even when the repository hosting it is made private).
- Click the green Create repository button at the bottom of the screen.



Step 3: Create index.html

• Create an index.html page by clicking the plus icon next to your repository name and typing the file name directly in the input box that appears.



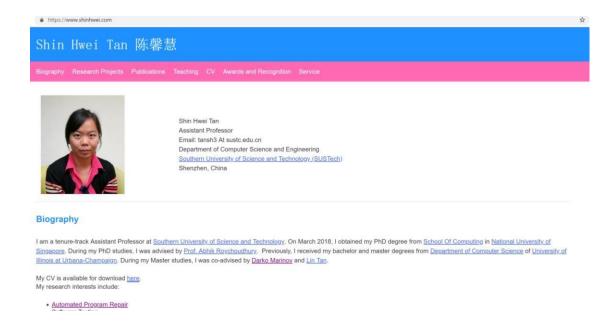
Step 4: Commit index.html

• Create an index.html page by clicking the plus icon next to your repository name and typing the file name directly in the input box that appears.

Create index.html	
Build the initial home page	

First GitHub Pages!

- Congrats! You just built your first GitHub Pages site. Usually the first time your GitHub Pages site is created it takes 5-10 minutes to go live.
- View it at http://username.github.io.



Assignments Deadline

- MP0 due on 7 March, 2022
- Project Proposal due on 11 March, 2022
 - Find your groupmate this week!
 - Start compiling and running tests for your project