## 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 <b>files</b>	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, branch, checkout, merge, log, tag			

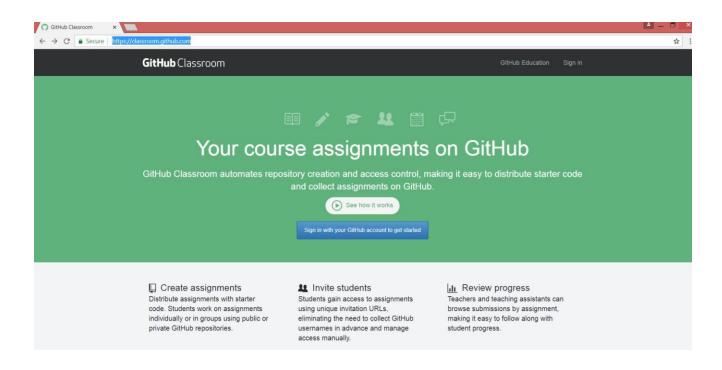
## Software required

- 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: <a href="https://netbeans.org/">https://netbeans.org/</a>

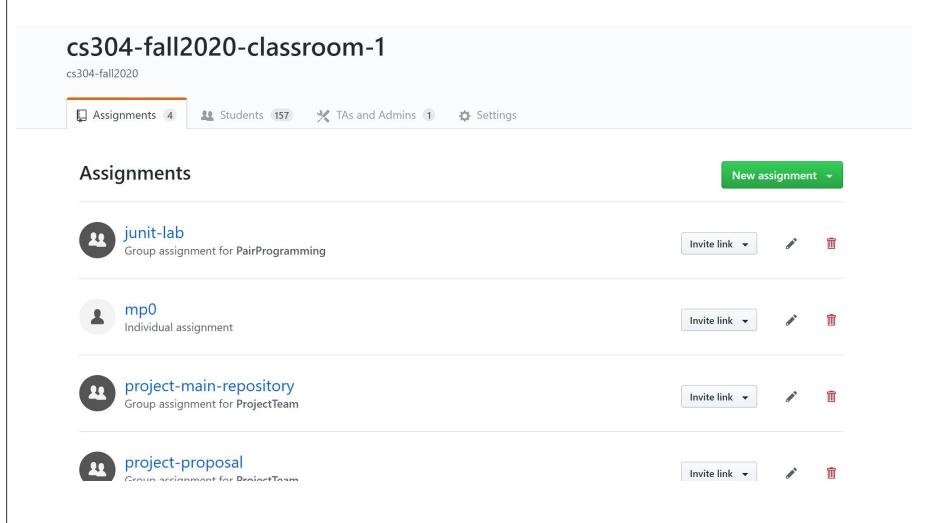
## Collaboration through GitHub Classroom

## Main Page

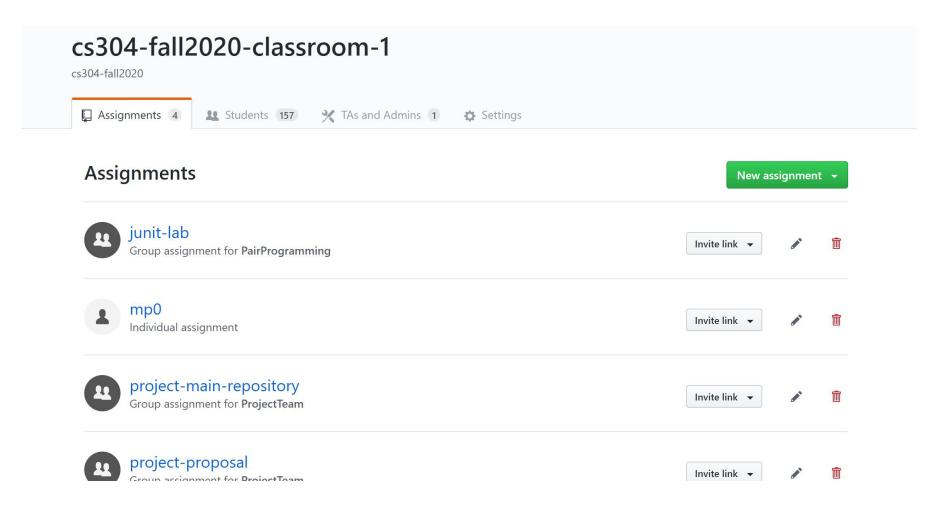
https://classroom.github.com/



## Our organization: cs304-fall2020-classroom-1



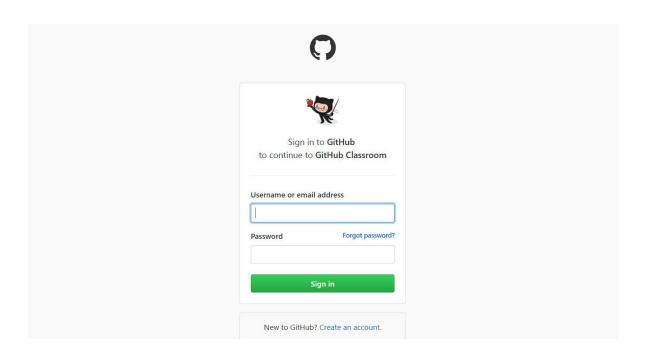
## List of Assignments: More coming soon...



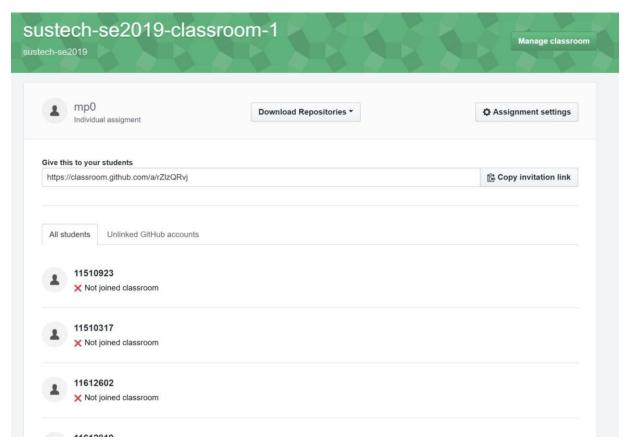
# First Assignment: mp0 Step 1: Accept Invitation

- Go to the invitation links:
- https://classroom.github.com/a/P3JeLUkK

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



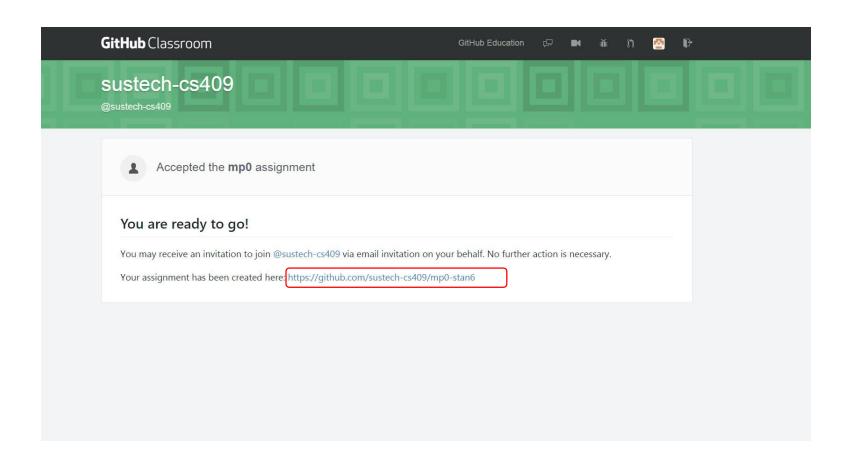
## Select Your Student ID (Do not skip)



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

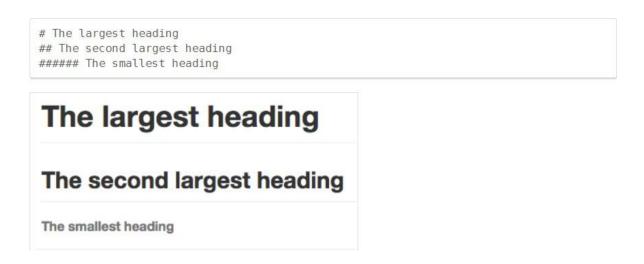
- Use Git from what you learned in previous slides
- Start working on mp0
  - Note: mp0 folder does not contain any starter code!
     Refer to cs409-mp0.pdf for instruction.

### 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
- 3. 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
  - 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: <a href="https://pages.github.com/">https://pages.github.com/</a>

#### \*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

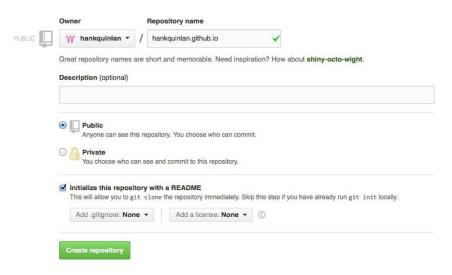
• Log-in to Github, then click the plus icon in the topbar to open a submenu;

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

Pull requests Issues Marketplace Gist New repository Import repository Repositories 52 Overview Stars 287 Followers 97 New gist New organization Pinned repositories titories ≡ Html2Bem ≡ worduplodz Simple HTML to BEM converter CSS JavaScript \* 2 Tomasz Dziuda ≡ dev-links ≡ wp-links dziudek Dev Links is my source of cool front-end and weekly source of the WordPress resources programming resources published usually once a week: Front-end Developer. WordPress, http://dziudek.github.io/dev-links Joomla!, Ghost, Electron, React, JavaScript, HTML, CSS, jQuery. JavaScript #1 V1 JavaScript \* 1 AL Dev Zen Poland, Łódź **■ LESS-Mixins**  dziudek@gmail.com My LESS mixins collection You can now pin up to 6 repositories. http://blog.dziudek.pl +1 V2

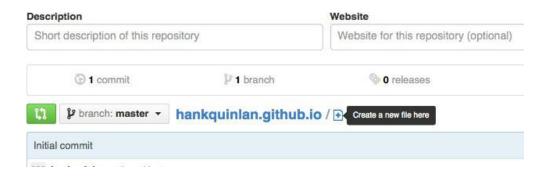
## Step 2: Select Repository name

- 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.



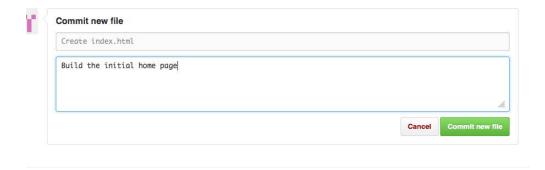
### Step 3: Create index.html

• 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.



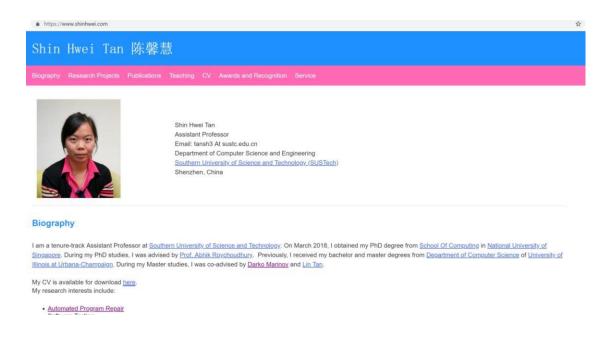
## Step 4: Commit index.html

• 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.



## 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 <a href="http://username.github.io">http://username.github.io</a>.



### **Assignments Deadline**

- MP0 due on 9 March, 2021
- Project Proposal due on 12 March, 2021
  - Find your groupmate this week!