

CS518 Intro to Software Engineering

Lab section

TAs

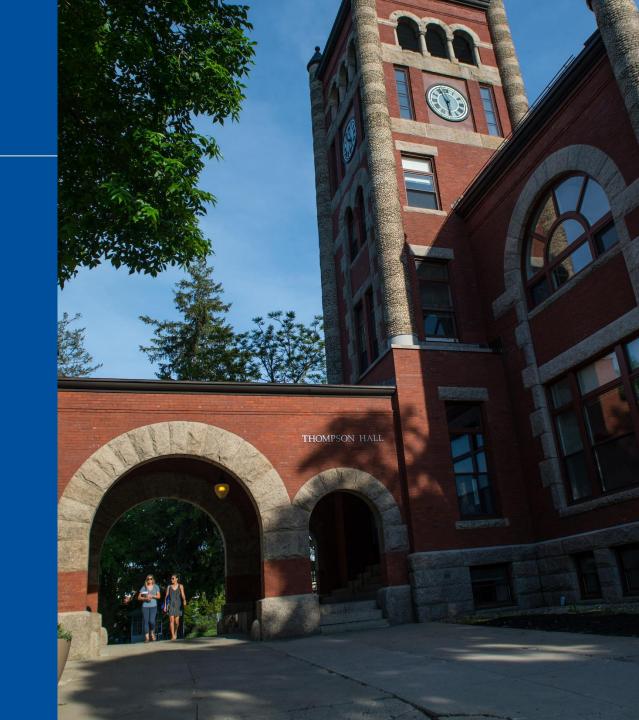
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Introduction

- Mini-lecture + practice (Wed)
- ~11 labs + project (web app)
- Group work (3~4 people)
- Design
- Database
- Web server
- Containerization
- Deployment





Office Hours

- In person: Monday during assigned lab time, in the lab room
- Online: time TBD, on Discord (#CS518 & #CS518-Lab)



Lab Policies

Attendance (please be on time)

• Be proactive (please reach out to us asap)

Teamwork





More Questions?





Lab-0 Intro



Environment Setup

- Canvas (have access to CS518 and being assigned to a group)
- Discord (have access to #CS518 and #CS518-Lab)
- Terminal (PowerShell, Windows Terminal...)
- IDE (strongly recommend, VSCode)
- Programming Languages (Java, Python)
- DevOps (Git, Azure Functions, Docker..)
- Accounts (Azure for Students, Docker Hub)



Discord

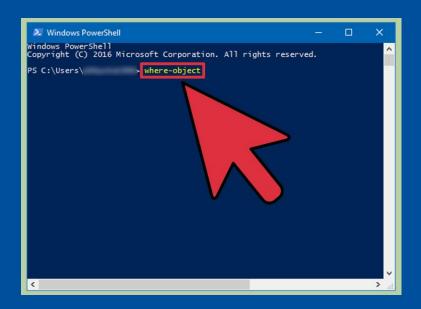
• Set up a breakout room on Discord for your team! (one person)

/breakout create @teammate1 @teammate2 ...@ta/cs518:online @ta/cs518:offline... name L0(Your section No.)-(Your group No.)



Terminal

Windows



- 🗆 2 PowerShell Core mikelarah@MIKE-SB2:/mnt/c/Users/MikeLarah\$ echo hello world PowerShell Core Ctrl+Shift+1 mikelarah@MIKE-SB2:/mnt/c/Users/MikeLarah\$ cmd Ctrl+Shift+2 Azure Cloud Shell Ctrl+Shift+3 ∆ Ubuntu Ctrl+Shift+4 Windows PowerShell Ctrl+Shift+5 Settings Ctrl+, Feedback ? About

- Macos (terminal)
- •Linux



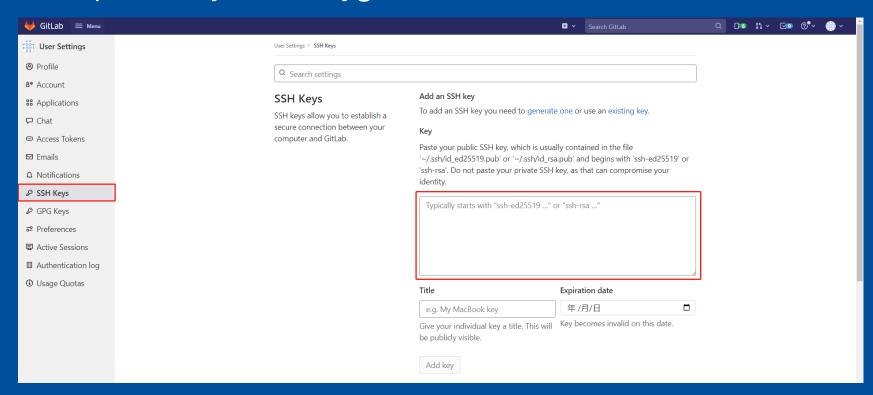
CLI

- List files (dir / ls)
- Navigate to difference directories (cd)
- Remove file(s) (rm)
- Copy files(s) (cp)
- Git (git)



Git

- https://git-scm.com/downloads
- Ensure git is installed and accessible from your terminal (git --version)
- Setup SSH keys (ssh-keygen –t rsa –b 2048)





Git Activities

- Go to your group's codebase
- Create a new project
- Clone the created project to your local

```
    Start working on it
        git add .
        git commit –m "some meaningful messages"
        git push
```

git pull



Merge Conflicts

- Merging and conflicts are a common part of the Git experience
- git merge –abort, revert back to where you were before

```
content.txt

1    red
2    green
3    blue
    Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes

4    <<<<< HEAD (Current Change)

5    yellow
6    white
7    ======
8    john
9    michael
10    >>>>>> his-branch (Incoming Change)

11
```





More Questions?



