CS61B Lab 1

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Agenda

- 1. Introduction
- 2. Announcements
- 3. Lab Format & Discord Demo
- 4. Lab 1 Overview
- 5. Crash Course "Repos in CS61B"
- 6. Useful Terminal Commands
- 7. Work Time in Discord

Introduction

Hey, I'm Aniruth (he/him/his)! I'm a second year EECS + Business major and this is my second time teaching 61B(L), though my first as a TA.

I'm from Tampa, Florida and am a (fairly) huge Bucs fan!

Discussion: Wednesday 9 AM

Lab: Thursday 9 AM

Office Hour: Monday 10 AM



Announcements

- 1. Lab 1 is due next Friday 1/28
 - a. Note: Other labs are usually due every Friday at 11:59 PM PT
- 2. Fill out the pre-semester survey due 1/24

Lab Format

- 1. Online for first two weeks of school
 - a. Mode of instruction TBD & will be announced later
- 2. Labs starts on Zoom
 - a. Lab Assignment Overview
 - b. Lab Presentation (Important Topics Covered in the Lab)
- 3. Work Time in Discord (CS61B Lab Discord Server)
 - a. TAs will process questions in #lab-queue
 - b. Feel free (and encouraged) to work with other students!
 - i. Make friends!

Breakout Rooms

What's your favorite thing to do?

Rooms will start by being randomly assigned; I'll allow you to then switch breakout rooms if you'd like after about 30 seconds.

Introduce yourself and feel free to share something!

Discord Demo

Lab 1 Overview

- 1. Set up
 - a. Terminal
 - b. Instructional account
 - c. Personal laptop
 - d. CS61B Tools
- 2. Git
- 3. Java + First Java Assignment

Crash Course: Repos in CS61B

Lab 1: Setup

Wednesday, January 19, 2022

Intuition for a Version Control System:

Consider two friends writing an essay together.

They work independently and may edit the same things. They also want to be accounting for each other's changes as well. And, they might need to revert to older versions.

Every time A edits something, they have to send a copy of the whole document to B, who updates their document, and vice versa. They heep old copies and different versio

Friend A

Friend B

Last 5 Paragraphs

A and B keep making abit to their own and each other's work

A A

A Analog to writing ade:

Cade line 1

Cade line 2

Cade line 2

Cate line 3

Cate line 3

Cate line 4

Cate line 4

Cate line 5

Cate line 6

Cate line 6

Cate line 7

Cate line 8

Cate line 8

Cate line 9

Cate line 9

Cate line 9

Cate line 1

Cate line 9

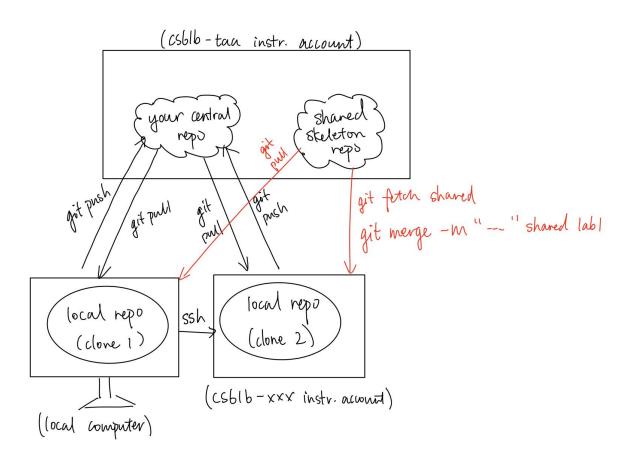
Cate line

diffs are "tracked" by the count object and then applied If A edits line 50 of a.txt and B deleter line 24, the new line 50 and metadata is all that is stored!

Branches are like working on multiple versions of an essay, wereing is combining them together.

Major git commands:

adds a file for staging git add snapshots added files into a commit git commit pushes commit (to other clore) fetilies then merges counits (for other clove) git push sit pull gets pushed commits git Getch combines brancles git merge shows madded, modified files (if there are any) gif status



Useful Terminal Commands Demo

Work Time

Discord: https://discord.gg/N2wVnmzMfr