

*San Jose State University*  
*Spring 2022*

---

CS161-01

Lecture Week 1

---

# Agenda

- ❖ Teams
- ❖ Project Theme
- ❖ Git Crash Course



*Teams Discussion*

# Teams

- There will be 4 people per team
- There will be about 7 teams



---

# Team Tasks Today

---

- ❖ Meet with your teammates (~15 minutes)
  - ❖ Introductions
  - ❖ Talk about what technical stuff that you like working with
- ❖ As a team
  - ❖ Exchange contact information (have one person collect all info, and have it sent to the whole team later)
  - ❖ Thank/Choose a team name
    - ❖ Good to know why the chosen name?
  - ❖ Designate a representative i.e. (Project Team Lead) for this week and next week

---

# Team Lead Responsibilities

---

- ❖ This is a rotational task every two weeks
  - ❖ Ensures that team meets at least two times a week to discuss topics and progress
  - ❖ Ensures that deliverables are on track
  - ❖ Still holds responsibilities for any assigned coding tasks
  - ❖ Submits a team report at the end of the weekend i.e. Sunday night on Canvas
    - ❖ The team report:
      - ❖ Include dates/times and where meet ups occurred (in person or via Zoom)
      - ❖ Will list down what action items were committed to since the previous meetup
      - ❖ Indicate what action items were completed and include next steps if any
      - ❖ Indicate who will be the next assigned team lead.
    - ❖ During team meetings, opens up conversation using SCRUM updates

---

# SCRUM quick crash course

---

- ❖ It's a framework for project management
- ❖ It typically starts off with a story which more of milestone goal
- ❖ Each story can be made up a of certain number of sprints
- ❖ Sprints are work activities that last about 2 weeks (typically)
- ❖ During each sprint, each individual is assigned 4 to 5 tasks that are to be completed before the end of the spring
- ❖ The team lead will work on gathering this information for the team

---

# Project Theme

---

- ❖ Just Like KAHOOT!



---

# GitHub Crash Course

---



**GitHub**

# What is GitHub?



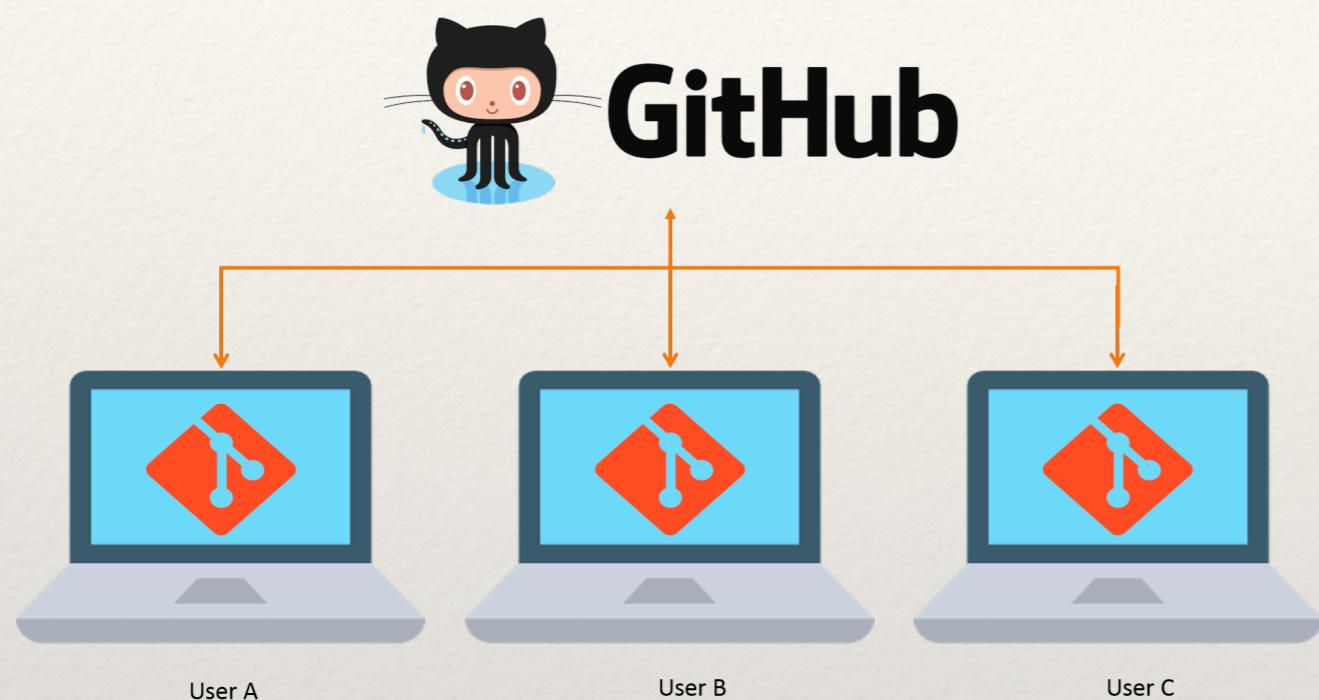
- Provides an archive of files that anyone can access
- Provides a way to do version control of files
- Provides a way to work with others
- Provides a way to give feedback to others
- A web based host service that allows others to share a Git repository

# What is Git?

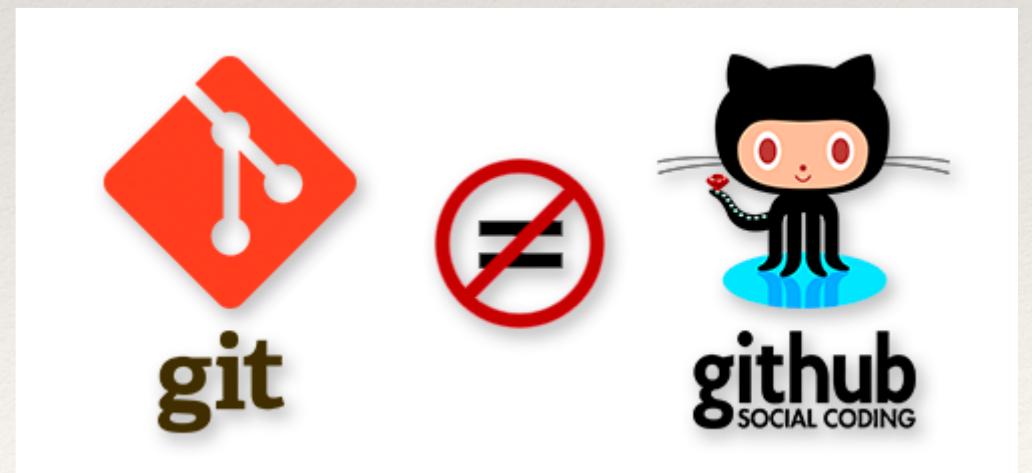


- Git is a tools version control service that resides on developers local machines
- It allows developers to use Git commands to i.e. create branches, commit to a repository, etc.

# GitHub and Git



- ❖ GitHub and Git complements each other



---

# Let's talk about GitHub

---



- ❖ Where is it and how do I work with it?

---

# GitHub

---

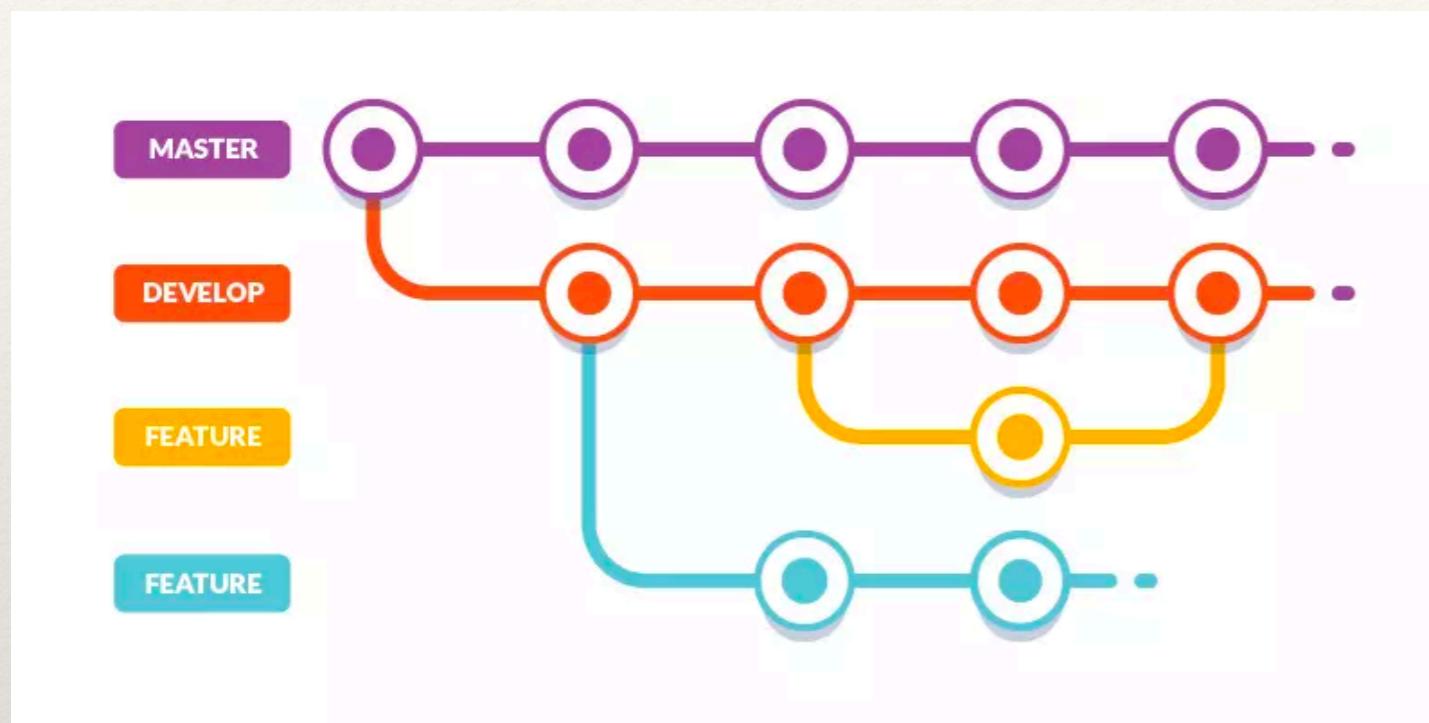
- ❖ Create a GitHub Account
- ❖ Download “GitHub Desktop”
  - ❖ Google it and download your installation on to your laptop

# Getting Started With A Repository

---

- ❖ I need space!!!
- ❖ Yes, you will need some space to host your project files
- ❖ A repository is one that provides this kind of space
  - ❖ Think of it as an open storage space
  - ❖ Let's talk about how to create a repository (see live example)

# Creating A Branch



- ❖ A branch is unique route for the evolution of your project files
- ❖ Starts off with a Master (main) branch where developers pull files from this branch and then they initiate their own branch where they then apply the changes to those files

---

# Committing Files

---

- ❖ A commit basically takes a snapshot of your latest changes
  - ❖ Think of it as putting things on a preparation stage
  - ❖ The files are not officially saved in the branch
- ❖ When you are satisfied and confident with your changes, you can finalize those changes using the pull request command

---

# Pull Requests

---

- ❖ Informs other developers that you made a recent change to a branch
- ❖ It's mainly for reviewing the changes with others
- ❖ Again, the file has not been totally saved into the appropriate branch because a review should be done first

---

# Let's talk about Git

---

