Git + GitHub
What is GitHub

- GitHub uses git
- GitHub provides git with an GUI interface
- Cloud based storage
- Account management system
- Combines/integrates a number of other tools including an issue tracking system, pull request tool
Register at GitHub

• Goto github.com and set up an account (if you don’t already have one)

• For you account name/ID use something professional - your name or KSU ID

• Don’t use your Discord or gaming handle (zombieKiller66)

• You may want to show a potential employer the code you have on GitHub, make it easy for others to find you and add you as a collaborator on other projects
GitHub Guides

- guides.github.com

- Documentation (easy to read) and examples of how to use GitHub.
Branching & Pull Requests
Branching

- Create or clone a repository using the web interface
- Create a new branch
  - See button “Branch: master”
  - Allows creation of new branch
- Make changes to the branch and commit the changes
Pull Request

• Open a pull request

  • Use “pull request” button

• Proposing your changes to the team and requesting that someone reviews and pulls in your changes and merges them into their branch (e.g., master)

• Pull request gives diff (differences) of the two versions

• After request is approved you can merge in the changes
Issue Tracking

- GitHub has an integrated issue tracking system (Issues) to keep track of new features, tasks, and bugs for each repository

- Allows issues to be open as a set of TODOs for the team to complete

- One can assign developers to issues

- There are different labels to help organize and document the issues (testing, refactoring, bug, etc)
Assignment

• Read the GitHub Guides:
  • Understanding the GitHub flow
  • Hello World
  • Mastering Issues