

Getting Started with GIT

CSCI 3100

GIT repositories for this class

- Everyone in this class has a GIT repo created on the department server: `git.cs.slu.edu`
- Log in to `git.cs.slu.edu` and navigate to your `csci3100` project directory.
- Clone your repository

Cloning your repo

- Log in to a lab computer or to hopper.slu.edu
- Create a “repos” directory under your “home” directory on the Linux system:
`mkdir repos`
- Navigate to the repos directory:
`cd repos`
- Create csci3100 directory:
`mkdir csci3100`
- Navigate to csci2300 directory:
`cd csci2300`
- Clone your git repo for this class:
`git clone <your repo>`
Example:
`git clone git@git.cs.slu.edu:courses/fall18/csci_3100/<YOUR_SLUNET_ID>.git`

Git Workflow for this class

- Git operates on branches
- The main and default branch is ‘master’. See all branches with:
`git branch`
- Branch with a * shows the current branch
- Only working and completed code should go into ‘master’ branch
- Create a feature branch when working on assignments
`git branch rod_cut`
- Switch to dev branch:
`git checkout rod_cut`
- Multiple feature branches can exist

Add files to your branch

- Create files and directories, as you normally would:
- Add the files to the 'staging area'
`git add <file_name or dir_name>`
- Look at the state of your branch:
`git status`
- Commit files to your branch
`git commit [file_name]-m "Commit description"`
 - If `file_name` is not provided, everything will be committed
 - If `-m` is not provided, a default editor will open and force you to write a commit description. If you don't write one, your code will not be committed
- Look at the state of your branch now.

Merging with 'master'

- Check out the 'master' branch:
`git checkout master`
- Merge your feature branch:
`git merge rod_cut`
- Push your code to the git server:
`git push`

Your OFFICIAL submission is what you pushed in master branch

Useful Tips

- Do frequent commits in the feature branch
- If you mess up, most likely there is a way to fix it
- Avoid multiple 'clones' of your repo