

Student git access

Everything that follows assumes that you are on one of the CS department Linux machines.

Initial setup There's some one time setup you need to do for your usage of git:

1. Let git know your name
`git config --global user.name "Jane Smith"`
2. Let git know your email
`git config --global user.email "jane.smith@slu.edu"`
3. Set your preferred editor (you can also use vi, emacs, etc.)
`git config --global core.editor "nano"`

For any course you take that uses git you need to setup access to the course repository and your personal repository within the course. Make a directory for the course and cd into it.

1. Create the initial course repository.
`git clone git@git.cs.slu.edu:courses/fall17/csci2100`
2. Add in your personal course repository
`git clone git@git.cs.slu.edu:courses/fall17/csci2100/jsmith`

This will create two directories. The first is the shared course repository and the second is your personal repository for the course.

Getting course materials To download everything from the course repository. Change directory to the course directory (csci2100)

```
git pull
```

Completing an assignment Your instructor will give you the name of an assignment, e.g. `assignment1`

1. Change directory to your personal repository (jsmith)
2. Create a directory for the assignment (e.g. `assignment 1`)
3. Create/edit any files you need to for the assignment
4. For each file that is part of the assignment (.h and .cpp files) add them to the repository
`git add filename`
5. Commit your changes
`git commit -a`
You will need to enter a log message describing the changes you have made.
6. Upload the changes
`git push`

See instructor comments and grades If your instructor makes any edits to your files or upload comments you can access them as follows

1. Change directory to your personal repository (jsmith)
2. Access the assignment
`git pull`
3. Look at any files your want to

Accessing from outside CS environment Git uses a ssh public/private keypair. You will need to copy your private key from hopper into the appropriate ssh directory on your computer. How to do this depends on the OS you are using.

Learning more about git There are a variety of good information sources online about git. For example <https://www.atlassian.com/git/tutorials>