**GitHub Basics**

**What is Git?**

* Git is a Version Control System (VCS) for tracking changes in computer files.
  + Distributed version control.
  + Coordinates work between multiple developers.
  + Who made what changes and when.
  + Revert back at any time.
  + Local and remote repos (repositories).

**Concepts of Git:**

* Keeps track of code history.
* Takes “snapshots” of your files.
* You decide when to take a snapshot by making a “commit”.
* You can visit any snapshot at any time.
* You can stage files before committing.

**Basic commands:**

* $ git init //initialize local Git Repository.
* $ git add <file> // add file(s) to index.
* $ git status //check status of working tree.
* $ git commit // commit changes in index.
* $ git push // push to remote repository
* $ git pull // pull latest from remote repository.
* $ git clone // clone repository into a new directory.

**Installing Git:**

* Linux (Debian):
  + $ sudo apt-get install git
* Linux (Fedora):
  + $ sudo yum install git
* Mac:
  + <http://git-scm.com/download/mac>
* Windows:
  + <http://git-scm.com/download/win>