Version Control

Version Control

- Do you use version control?
- Synchronizing files, keep tracking of changes, undoing changes, ...
- Version control system: keeps the master copy of the file
- http://darcs.net/
- https://git-scm.com/
- NJIT manages a Git server, git.njit.edu, which provides a web-based Git-repository

Setting Up Git

On a command line, Git commands are written as git verb, where verb is what we actually want to do.

- git config --global user.name "your name"
- git config --global user.email "your e-mail"
- git config --global core.autocrlf input (For macOS)
- git config --global core.editor "emacs"
- git config --list
- git --help

git init	Make the working directory a repository
git status	Show the status of the project
rm -rf .git	Remove the entire Git history of a project
git add	Add file contents to the index
git commit	Record changes to the repository
git log	Show commit logs
git diff	Show changes between commits
git diff HEAD	Show the difference between the last commit
git diff HEAD$\sim$1	Show the difference between one before HEAD
git checkout	Check out a branch or paths to the working tree
git branch	List, create, or delete branches
gitk	Show GUI history