

Git basics at UConn

1 Introduction

Git is software that keeps track of changes that you make on files and directories and specially is good at text changes. Git is a distributed version control system. In Git, different users maintain their own repositories, instead of working from a central repository and changes are stored as *change set* or *patches*. Git just tracks changes, not versions and it is different from SVN, which tracks versions. Therefore, change sets can be exchanged between repositories.

2 Installation

Git supports Mac, Linux and Windows and you can download it through <http://git-scm.com>. A good tutorial can be found at <https://help.github.com/articles/set-up-git/>.

3 Working with *github.uconn.edu*

UConn has a private instance of github at github.uconn.edu. To use it, you can go to the site and login with your net id. When you want to create a new repository, you need to enter a name for it and specify whether it is public or private. If you want to initialize it for the first time you can select *Initialize this repository with a README*. There is an option for specifying type of the *.gitignore* file that you want to be generated. *.gitignore* defines a group of files which should not to be committed to a repository.

For sharing a repository, you can go to the setting part of your repository and select collaborators. In the box of collaborators, add “**she13001**” as one of the collaborators and also add teammates as others.

In order to having the created repository on your system, you need the HTTPS clone URL of your repository and using the “*git clone URL*” command in your bash terminal. By running this command, the repository will be cloned on your system. Make sure to run this command from the directory where you want to store the repository.