# CSC 483 Lab #1 – Source Control

## Purpose

Source control tools are essential to all kinds of modern development. They not only provide a way of protecting code, but when used correctly they can improve the efficiency of development teams. The goal of this lab is to give the student a working knowledge of the most popular distributed source control tool, Git.

## Lab Procedure

1. Go to <http://learngitbranching.js.org/>
2. Complete the Git tutorial
3. Go to <www.github.com> and sign up for an account (if you don’t have one already)
4. Create a repository called CSC483
5. Commit a text file called ReadMe.txt into your CSC483 repository (Remember to put in a comment on your commit)
6. Email Mr. Mason ([joelamason@gmail.com](mailto:joelamason@gmail.com)) the URL of your CSC483 Repository (include your name as well) and a screenshot of your completed tutorial.

Lab Paper

Answer the following questions about Git:

* What is a commit and how do you do it?
* What is a branch and how do you branch?
* What is staging and why does it exist?
* What is a diff and how do you perform a diff?
* What is a merge and how do you perform a merge?

## Class Project

Accept the invite that will be arriving to join the software engineering GitHub organization.

## Other Reading

Check out this link for a great overview of source control concepts.  
<https://homes.cs.washington.edu/~mernst/advice/version-control.html>