Homework 9
Advanced Git

Assigned: Friday, March 11

Due: Friday, March 18, 11:00AM (Hard Deadline)

Submission Instructions

For this assignment, all of your submissions will be to GitLab.

Optional Reading

Git is a purely functional data structure, by Philip Nilsson, from Jayway.

http://www.jayway.com/2013/03/03/git-is-a-purely-functional-data-structure/

I highly encourage reading this when you have some time to read the article carefully and think deeply about the material. This article presents an excellent way of thinking about git and how it operates.

1   Sharing code with others

Earlier this semester, we asked you to use git with at least one project. Now you will set up that project to be shared with the course staff. Visit https://gitlab.eecs.umich.edu and create a new project named **exactly** c4cs-w16-wk9. Be sure to create this project as **Private** (not Interal or Public).

Add this new repository as a remote (git remote add ...) to your existing project.

Push the project to this new remote.

In GitLab, grant **Reporter** permission to ppannuto and mmdarden. (Click on the "Members" link in the left column to manage this permission).

We will run a test script, checking our access to everyone's repository on Thursday night.

2   Handling merge conflicts

2.1   Content Conflict

Clone https://gitlab.eecs.umich.edu/ppannuto/c4cs-w16-conflict1.git.

This repository has a `master` branch and a `merge_me` branch that have diverged. Merge the `merge_me` branch into `master`, resolving the conflict.

Create a new repository in your GitLab named **exactly** `c4cs-w16-conflict1`. Be sure to create this project as **Private** (not Interal or Public).

Push your changes to your new repository.

In GitLab, grant **Reporter** permission to `ppannuto` and `mmdarden`. (Click on the "Members" link in the left column to manage this permission).

We will run a test script, checking our access to everyone's repository on Thursday night.

2.2   File Path Conflict

Repeat the same steps for https://gitlab.eecs.umich.edu/ppannuto/c4cs-w16-conflict2.git.

Be sure to read over the commit history so that you are sure that the result of your merge has the right data!