ICS 199 Git Workflow Cheat Sheet

- 1. Get your project's latest master branch:
 - a. If you haven't downloaded your project yet: git clone clone
 - b. If you already have it, update master branch:

```
git fetch
git diff master origin/master (if you want to see changes)
git merge origin/master
```

- 2. Create your development branch:
 - a. git checkout -b <name of dev branch be fairly
 descriptive>
- 3. Now do your work, commit early; commit often:

```
a. git commit -a -m "<commit message here>"
```

- 4. At the end of your work session, time to push changes to GitLab. First, update local master:
 - a. git checkout master
 - b. git fetch
 - c. git diff master origin/master
 - i. if this outputs nothing, your master branch is already up-to-date. Go to step 7.
 - d. git merge origin/master
- 5. Now update your dev branch:
 - a. git checkout <your dev branch>
 b. git rebase master
- 6. If there was no conflict, skip to Step 7, otherwise:
 - a. manually edit the file that has a conflict in your dev branch
 - b. re-stage the file: git add <file that had conflict>
 - c. finish the re-basing: git rebase --continue
- 7. Push your dev branch to GitLab (remote repository the origin):
 - a. If you haven't pushed yet: git push -u origin <your dev branch>
 - b. If you have pushed before: git push
- 8. On GitLab, check to make sure your push passed tests:
 - a. If not, fix and go back to Step 3
 - b. If so, continue to Step 9
- 9. If done with work on this dev branch, on GitLab, create a Merge Request assign yourself or someone else, Submit the Request
- 10. Accept Merge Request. Your changes should now be on the live site!!!