Git Workflow CheatSheet

Initial Setup

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1. **Fork** the original repo on Github
2. **Clone** the forked repo to your local machine
   `git clone <your-repo-url>`
3. Add the original repository as the **upstream** remote
   `git remote add upstream <original-repo-url>`
4. Check the current remotes that you have
   `git remote -v`
   (make sure that the original repo is set as upstream and
   your forked repo is set as origin)

Making a Contribution (basic)

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1. Fetch the latest version of the code from the original repo
   `git pull upstream master`
2. Make your changes
3. Add and commit
   `git add <filename>` or `git add *` to add everything
   `git status` (check which files you have staged)
   `git commit -m "commit message"`
4. Pull the latest code from the original repo and resolve any merge
   conflicts
   `git pull upstream master`
5. Push your changes to your remote repo on Github
   `git push origin master`
6. Make a Pull Request to the original repo

Making a Contribution (with branching)

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1. Fetch the latest version of the code from the original repo
   `git pull upstream master`
2. Create and checkout to a branch
   `git checkout -b branch_name`
3. Make your changes
4. Add and commit
   `git add <filename>` or `git add *` to add everything

`git status` (check which files you have staged)
`git commit -m "commit message"`
5. Pull the latest code from the original repo and resolve any merge conflicts
   `git pull upstream master`
6. Push your branch onto your remote repo
   `git push origin branch_name`
7. **Compare and make Pull Request** to merge branch to master (on Github)
8. Make a Pull Request to the original repo
9. Clean up: once your Pull Request is accepted, delete the branch for that feature/fix
   `git branch -d branch_name`
   `git push --delete origin branch_name`