



# Git Diff Exercise

This exercise comes with a starter repo that you will need to clone down to your machine. We will be working with two bands: Queen and Fleetwood Mac and their various lineups over the years.

## Part 1: Setup

Please run the following commands from your terminal. Make sure you are not inside of a Git repo.

```
git clone https://github.com/Colt/git-diff-exercise
```

- Change into the newly created folder called `git-diff-exercise`. You will be on a branch called `current` by default.
- Run `git switch 1970s`
- You should now have two branches that you can move between: `current` and `1970s`. Each branch contains two files: `queen.txt` and `fleetwoodmac.txt`

## Part 2: The Diffs

1. Compare the difference between the `1970s` branch and the `current` branch across all files

2. Compare the difference between the `1970s` branch and the `current` branch but only for the `queen.txt` file
3. Switch over to the `current` branch if you are not currently on it. Run a diff to compare the current HEAD to the previous commit (you could use the commit hash or reference HEAD's parent commit)
4. While on the `current` branch, change the `queen.txt` file by replacing `Adam Lambert` with your own name. Save the change. Add `queen.txt` to the staging area. DO NOT COMMIT YET!
5. Edit the `fleetwoodmac.txt` file, changing the lead singer from Stevie Nicks to Stevie Chicks (one of my chickens). Save the file, but do not stage it.
6. Run a diff that would reveal the unstaged changes in the working directory (you should see only the change to `fleetwoodmac.txt` printed out)
7. Run a diff that would reveal only the staged changes (you should only see the change to `queen.txt` printed out)
8. Run a diff that prints all changes (staged and unstaged) since the prior commit (you should see both changes printed out)