Git Resetting and Reverting

- In this section, we will take a took at git reset and git revert command.
- Everyone makes a mistake, in some situation we don't want to commit certain things but do. So there is a several options to undo that commit.
- One of the option is git revert command. Second one is git reset command.

Git revert

• git revert command creates a new commit, which literally reverse the only changes that we made on the commit that we specified. A git revert command is useful if you want to undo the changes and keep those changes in your GIT history.

```
$ git revert <commit-id>
```

Git reset

• In the git reset command, there is two ways to reset the commit. Either with the --soft flag which we wants to keep the changes that we made or over the --hand flag in order to loose all the changes that we made on that commit.

```
# soft reset
$ git reset --soft HEAD~1
# hard reset
$ git reset --hard HEAD~1
```

• When we reset the commit with --soft flag, we still have the access to changes that we made by that commit. We can see that status by git status command. We can easily create an another commit this way.

```
$ git reset --soft HEAD~1
$ git status
On branch sarah
Changes to be committed:
   added: third_story.txt  # file shown with git status command
```

• In the --hard flag, it will reset the commit without saving all those changes.

```
$ git reset --hard HEAD~1
$ git status
On branch sarah
Nothing to commit
```