



My Github Guide

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Complete Setup of Github and Git

- `mkdir` and `cd` into `new-dir`
- `git init` // Converts the directory into repository
- `git status` //to check status
- Open github website and create a new repository without initializing with README or LICENSE.
- **Setup for password and automatic login:**
 - `ssh-keygen -t rsa`
 - Run this in `cd ~` (home/AnimeshK) directory
 - Go on pressing ENTER for any prompt if comes
 - Go to github avatar-> Settings-> SSH and GPG ->new SSH Key
 - Copy the contents of `~/.ssh/id_rsa.pub` file and paste into the 'key' field of the form just opened on the website.
- In your folder create a README file and write to it, then add it to the staging index, then commit it also.
- Run this
 - `git remote add origin https://github.com/<username>/<new repo name>.git`
- Then
 - `git remote set-url origin git+ssh://git@github.com/<username>/<new repo name>.git`
- Running `git remote show origin` should show the git@github kind of fetch and push urls.
- `git push -u origin <branch1> <branch2> ..` // for all branches use `--all` flag instead of list of `<branchi>'s`.
 - This will make the listed branches to push to the github repo
- Next time onwards when you are done with all committing and want to reflect the changes on the github repo just run

git push

- Whenever you create a <new-branch> and want it to use git push, then do below (being at master):

`git push -u origin <new-branch>`

- As it turns out, git doesn't automatically push the 'tags' you have put locally to github repo, for that you have to run below command

`git push --tags`

Other Commands

- `git <cmd name> --help` // for help
- `git branch` // to list branches
- `git branch <new branch>` // to create <new branch>
- `git branch -d <branch>` // to delete <branch>
- `git checkout <branch>` // get into the <branch> as active branch
- `git add <file1> <file2>` // to stage modified files to staging index
- `git commit` // to commit finally (opens up the editor for commit message)
- `git commit -m "<commit message>"` // If the message is short: use this
- `git log --oneline --all --graph` // display the commit graph
- `git log -p` // shows the logs in detail in the current branch

