GIT Document

GitHub Account

Create an account in GitHub.
For the go to: https://github.com/

Then install Git in your local machine.
Installation procedure is provided in following link:
http://git-scm.com/book/en/Getting-Started-Installing-Git
or
http://git-scm.com/downloads

Now that you have Git installed, it's time to configure your settings.
For that go to Terminal.

Setup Git

Username

First you need to tell git your name, so that it can properly label the commits you make.

```
Type the following in terminal

git config --global user.name "Your Name Here"
 # Sets the default name for git to use when you commit
```

Email

Git saves your email address into the commits you make. We use the email address to associate your commits with your GitHub account.

```
Type the following in terminal

git config --global user.email "your_email@example.com"
# Sets the default email for git to use when you commit
```

Your email address for Git should be the same one associated with your GitHub account.

For proxy server(if present)

```
Type the following in terminal
git config --global http.proxy http://proxyuser:proxypwd@proxy.server.com:8080
```

Create A Repo

Make a new repository on GitHub.

How to make a Repo?
Please refer the following link: https://help.github.com/articles/create-a-repo

Create a README for your repository

Step 1: Create the README file

```
Type the following in terminal

mkdir ~/Hello-World
# Creates a directory for your project called "Hello-World" in your user
directory

cd ~/Hello-World
# Changes the current working directory to your newly created directory

git init
# Sets up the necessary Git files
# Initialized empty Git repository in /Users/you/Hello-World/.git/

touch README
# Creates a file called "README" in your Hello-World directory
```

Step 2: Commit your README

Now that you have your README set up, it's time to commit it. A commit is essentially a snapshot of all the files in your project at a particular point in time. In the prompt, type the following code:

```
Type the following in terminal

git add README
# Stages your README file, adding it to the list of files to be committed

git commit -m 'first commit'
# Commits your files, adding the message "first commit"
```

Step 3: Push your commit

So far, everything you've done has been in your local repository, meaning you still haven't done anything on GitHub yet. To connect your local repository to your GitHub account, you will need to set a remote for your repository and push your commits to it.

```
Type the following in terminal

git remote add origin https://github.com/username/Hello-World.git
```

```
# Creates a remote named "origin" pointing at your GitHub repository

git push origin master
# Sends your commits in the "master" branch to GitHub
```

(Note: For detailed documentation on working with Git to the following link: http://git-scm.com/documentation)

Clone a Repo(copy a git repository so you can add to it):

If you need to collaborate with someone on a project, or if you want to get a copy of a project so you can look at or use the code, you will clone it. You simply run the `git clone [url]` command with the URL of the project you want to copy.

```
Type the following in terminal

for eg:

     git clone https://github.com/iitbaakash/DiaSlate.git

it will create a folder named DiaSlate.

This will copy the entire history of that project so you have it locally
and it will give you a working directory of the main branch of that
project so you can look at the code or start editing it.
```