# Chapter 3: Git: Version Control System

1. Create Github project
   1. Install git
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   3. Create any git project by git init command
   4. From main branch create another branch, say testing
   5. Testing branch make some changes
   6. Commit the changes
   7. Create github account, remote
   8. Publish this git project to your github account
2. Homework:
   1. Check quick 5 minute video on git desktop from youtube
   2. Quick 5 minute video on github
   3. Explore <https://github.com/secmlops/ML2022>

**Book:**

<https://git-scm.com/book/en/v2>

**Start with Github**

1. Create [Github account](https://github.com/)
2. Create a repository
3. Install github desktop
4. Connect your github desktop to your github account
5. Clone git repository to your local system using github desktop

**Start working with Repository**

1. Clone few repo to your local
2. Make some changes in local
3. Publish change in this local repo to your github account
4. Commit
5. Push the change
6. From github desktop, check action on repository
7. From github desktop, check action on branch

**Using git bash**

1. Create a folder, say testing
2. Open git bash
3. Cd to testing from git bash to reach the location of folder
4. Git init to make this folder as git folder
5. From Github desktop open existing folder
6. skipping above steps, create new repository from github desktop

**Work with github**

1. Create a new repo
2. Look into code and open with github desktop
3. Clone in a folder
4. Make some changes in the folder, file, code
5. Check from github desktop
6. Commit
7. Push to remote, origin and take the change to github

**Fork**

1. Fork a repo to your account
2. Clone the forked repo to you local
3. Make some change
4. Commit
5. push

**Pull Request**

1. Make change in your local
2. Commit
3. Push to your github
4. If From forked repo create pull request
5. Make a local branch of main repo, make some change in local and create pull request from local to remote branch, check both the branch and repo before creating pull request

**Learning**

What is repository?

What is fork?

What is clone?

What is the difference between fork and clone?

What is origin?

What is hidden file and directory?

How to push the code to remote?

Github

<https://www.youtube.com/watch?v=RPagOAUx2SQ>

homework:

What is gitignore, how to create it, explore 5-10 minute video

What is wiki in git, what is the use of this, 5-10 minute video

**Wiki**

About developer of code

Homepage with one picture

What this wiki have

More picture

Read from csv

Read from yahoo fiance

Read from other sources

Read from data base

Read from other sources

First page is home page

Add new pages

Add side baar

# **Git Tutorial - 25 - GitHub Organizations and Teams**

<https://www.youtube.com/watch?v=SUu6cmcC-3A>

Homework:

Look into 5-10 minute video

1. Create a merge commit
2. Squash and merge
3. Rebase and merge