

Getting started with Git and Github

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1 Understanding a Version Control System

Go to <https://git-scm.com/book/en/v2> and read Chapter 1.

1.1 Assignment

This assignment is to test your understanding of a VCS. I will list a set of changes to a set of files. It is your job to track and record these changes in a simple text file. Open Assignment1.txt and update the author name to your name in the first section. This file contains a set of dummy files with their content next to it.

The first way you save the changes are by the old method. This system was used by Subversion and other systems. Your reading should help you understand how it works.

The second way is the Git way. I'll let you figure it out. Hint: Track snapshots. Not changes.

So here are the steps.

1. A2 added Wednesday to the end of File 1 at 10:00 a.m. on 20/05
2. A1 added Goa before via of File 2 at 11:00 a.m. on 20/05
3. A3 added Date to the end of File 3 at 5:00 a.m. on 20/05
4. A4 added Happy before the last element of File 1 at 12:00 a.m. on 21/05
5. A5 added Got lucky to the start of File 2 at 9:00 a.m. on 23/05
6. A2 added Still dazed to the end of File 1 at 8:00 a.m. on 24/05
7. A1 added Dreaming after first entry of File 3 at 7:00 a.m. on 25/05
8. A3 added Dreams of Mech Guy to the end of File 1 at 9:00 a.m. on 25/05

2 Git Commands and Working with Repos

Next we learn how to actually use Git. The commands are important, so make sure you understand what each command does. Make sure you go through what Git repos and remote repos are as well. Read chapter 2 from <https://git-scm.com/book/en/v2>.

2.1 Assignment

Go to <https://try.github.io/> and finish all the challenges.

3 Branches

Branches are a feature of Git which will help us work sync and collaborate properly. Read Chapter 3 from the Git book.

4 Our Workflow

This is the most important part of this lesson. We will learn what steps to take to keep our project organized. We will be doing this step on a Google Chat on 22/05/2015, at night.

1. I create a master repo on github called qstp-training
2. You fork the repo on Github
3. Then you clone the master branch of the repo onto your system
4. You create a new branch called B-Sa. These are the first two letters of your name. This would be Sanjana's branch.
5. You make all the changes as required and commit them to your branch.
6. You push all the changes to your repo.
7. I check and add all the changes to the master branch.
8. You pull the master branch again and the cycle continues.