

A git Tutorial

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0.1 Intro

This tutorial will introduce git, a version control system. We will introduce the basics of using git in a multi-person project: how to track your work and sync it with other team members. We'll start with the basics of how to create a repository and commit your own work into it, then move on to merging, branches and other issues involved with a multi-person git project.

0.2 A Note on Notation

Code snippets and commands will be formatted in a **monospace** font or in a separate figure.

Here is an example of a separate figure:

```
user@host ~ example_command
```

Figure 1: Example Command Snippet

Chapter 1

Single User git

Empty content

Chapter 2

Multi-user

In this section you will be doing a demo of how to get code from someone else's project and make changes to it on git. If you are working on a project with a group or you want to make a contribution to an open source project you may find some of these commands useful. First you would `cd` to the directory that you want to put the project folder into. For this demo you can just clone it to your home directory. Now type `git clone [url of project]` to download all the files of that project to your computer. If you make a change and push it now you will be making changes to the master branch Create a new branch by typing `git branch [new_branch_name]` You can verify that the branch was created with `git branch` And switch to this branch with `git checkout [new_branch_name]` Make a change to a file, add it, and commit it. `git add [filename]` `git commit -m "commit message"` You just committed the changes to your local branch. You can push this branch to the repository with `git push -u origin [new_branch_name]`

Bibliography

- [1] Git. (n.d.). Retrieved October 2, 2015, from <http://www.git-scm.com/>