**<https://www.youtube.com/watch?v=xKVlZ3wFVKA&list=PL5-da3qGB5IBLMp7LtN8Nc3Efd4hJq0kD>**

[**https://www.dataschool.io/git-quick-reference-for-beginners/**](https://www.dataschool.io/git-quick-reference-for-beginners/)

1. **What is the Difference Between Git and Github**

Git is a system for version control.Primarily used by programmer.

It writes in command prompt on local machine.

It allows keeping track of your files and modifications etc

Github is a website that allows you to upload your gut reprository online .

Why ?

Backup your files

Visuals of your data and repos

Give navigation access to other people to your repos

Makes Repos collaboration easy

1. Setting up Git and Github

<https://help.github.com/en/github/getting-started-with-github/set-up-git>

<https://help.github.com/en/github/using-git/setting-your-username-in-git>

1. Navigating a GitHub Repository

Simple Navigation

1. Forking a Git Repository

Upstream Repo is the repo from which you forked.

Copy the files

Contribute to files

Forking is a GitHub concept not Git concept , it will not affect anything on my local machine.

1. Copying a GitHub Repository to Your Local Computer

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles

$ git clone https://github.com/sanakisa/test.repo.git

Cloning into 'test.repo'...

remote: Enumerating objects: 3, done.

remote: Counting objects: 100% (3/3), done.

remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (3/3), done.

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles

$ cd test.repo

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test .repo

$ ls

README.md

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test .repo

$ git remote -v

origin https://github.com/sanakisa/test.repo.git (fetch)

origin https://github.com/sanakisa/test.repo.git (push)

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ git remote add origin https://github.com/sanakisa/test.repo.git

fatal: remote origin already exists.

1. Committing Changes in Git and Pushing to a GitHub Repository

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ ls

README.md

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ touch new.md

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ ls

new.md README.md

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ git status

On branch master

Your branch is up-to-date with 'origin/master'.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: README.md

Untracked files:

(use "git add <file>..." to include in what will be committed)

new.md

no changes added to commit (use "git add" and/or "git commit -a")

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ git add .

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ git status

On branch master

Your branch is up-to-date with 'origin/master'.

Changes to be committed:

(use "git reset HEAD <file>..." to unstage)

modified: README.md

new file: new.md

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ git commit -m "edit readme and add new.md"

[master f23558e] edit readme and add new.md

Committer: Sana Zehra <szehra@ms.ds.uhc.com>

Your name and email address were configured automatically based

on your username and hostname. Please check that they are accurate.

You can suppress this message by setting them explicitly:

git config --global user.name "Your Name"

git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

2 files changed, 11 insertions(+), 1 deletion(-)

create mode 100644 new.md

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ git status

On branch master

Your branch is ahead of 'origin/master' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ git log

commit f23558e83ebdfcc3558d996696e7818c03b95781

Author: Sana Zehra <szehra@ms.ds.uhc.com>

Date: Wed Oct 30 13:31:06 2019 +0530

edit readme and add new.md

commit b9221196128e7aa58c158857b88b413e887cda47

Author: sanakisa <33651487+sanakisa@users.noreply.github.com>

Date: Wed Oct 23 18:03:45 2019 +0530

Initial commit

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$ git push origin master

fatal: AggregateException encountered.

One or more errors occurred.

Username for 'https://github.com': sanakisa

Counting objects: 4, done.

Delta compression using up to 4 threads.

Compressing objects: 100% (3/3), done.

Writing objects: 100% (4/4), 428 bytes | 0 bytes/s, done.

Total 4 (delta 0), reused 0 (delta 0)

To https://github.com/sanakisa/test.repo.git

b922119..f23558e master -> master

szehra@LHTU05CG6481JV4:/c/Users/szehra/Desktop/Data Science/Github Profiles/test.repo

$