List of useful Github Commands

Difficulty Level : Easy   •   Last Updated : 04 Aug, 2021

Github is a distributed version control system which helps to manage the repositories.

These are a list of few commands that you can use frequently on github(git bash)

```
1.git help
```

Take help from github help section for different commands and other errors

```
2.git config
```

To set the basic configurations on github like your name and email.

```
3.git config —–global user.name "Ashish Madaan"
```

Sets configuration values for your user name on git.

```
4.git config —–global user.email ashishmadaan6@gmail.com
```

Sets configuration values for your user email on git.

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Create a directory if not created initially.

```
7.cd store
```

To go inside the directory and work upon its contents.

```
8.git init
```

To create a local git repository for us in our store folder.This will help to manage the git commands for that particular repository.

```
9.git status
```

To see whats changed since last commit.It shows all the files that have been added and modified and ready to be commmitted and files which are untracked

```
10.git add Readme.txt
```

To add a file Readme.txt to the staging area to track its changes.

```
11.git commit -m "Created a Readme.txt"
```

To commit our changes(taking a snapshot) and providing a message to remember for future reference.

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13.git add

To add a specific list of files to staging area.

14.git add --all

To add all files of current directory to staging area.

15.git add *.txt

To add all text files of the current directory to staging area.

16.git add docs/*.txt

To add all text files of a particular directory(docs) to staging area.

17.git add docs/

To add all files in a particular directory(docs) to staging area.

18.git add "*.txt"

To add text files of entire project to staging area.

More Commands:

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To undo staging of the file that was added in the staging area.

21.git checkout –license

To Blow away all changes since the last commit of the file.

22.git commit –a –m "Readme.md"

To add any of our tracked files to staging area and commit them by providing a message to remember.

23.git reset –soft HEAD^

To undo last commit and bring file to staging area.

24.git reset –hard HEAD^

To undo last commit and remove file from the staging area as well(In case we went horribly wrong).

25.git reset –hard HEAD^^

To undo last 2 commits and all changes.

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27.git remote add <address>

To add new remotes to our local repository for a particular git address.

28.git remove rm

To remove a remote from our local repository.

29.git push -u origin master

To push all the contents of our local repository that belong to master branch to the
server(Global repository).

30.git clone https://github.com/madaan123/MyAlgorithms.git

To clone or make a local copy of the global repository in your system
(git clone command downloads the repository and creates a remote named as origin
which can be checked by command – git remote -v).

31.git branch Testing

To create a new branch named as Testing.

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To switch to branch Testing from master branch.

`34.ls`

To see directories and files in the current directory.

`35.git merge Testing`

To merge Testing branch with master branch.

`36.git branch -d Testing`

To delete Testing branch.

`37.git checkout -b admin`

To create a new branch admin and set it as current branch.

`38.git branch -r`

To look at all the remote branches.

`39.git branch -D Testing`

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```
41.git checkout v0.0.1
```

To set the current tag to v0.0.1.

```
42.git tag -a v0.0.3 -m "version 0.0.3"
```

To create a new tag.

```
43.git push —tags
```

To push the tags to remote repository.

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```
45.git rebase
```

Three tasks are performed by git rebase

1. Move all changes to master which are not in origin/master to a temporary area.
2. Run all origin master commits.
3. Run all commits in the temporary area on top of our master one at a time, so it avoids merge commits.

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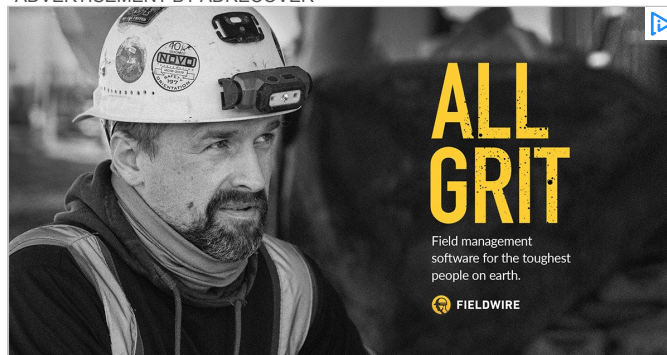# Start Your Coding Journey Now!

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