CONSULTADD INC

PRESENTS

# GIT COMMANDS IN NUTSHELL



Riyaz Ul Haque Software Engineer | Corporate Trainer LinkedIn: https://www.linkedin.com/in/riyazulhaque/

#### **CREATE**

Clone an exisiting repository

\$ git clone https://github.com/test/demorepo.git

Initialise an empty repository

\$ git init

# LOCAL CHANGES

Latest changes on files

\$ git diff

Add changes to the staging area of all files

\$ git add .

Add changes to the staging area of a specific file

\$ git add <file\_name.extension>

Commit all changes in the tracked file

\$ git commit -a

Commit the changes with commit message

\$ git commit - m "your message here"

Status of changed files after commit

\$ git status

## **COMMIT HISTORY**

History of all commits

\$ git log

Show changes over a time for a specific file

\$ git log -p <file\_name>

Who changed what and when in specific file

\$ git blame <file\_name>

# **BRANCHING & MERGING**

Check all branch

\$ git branch

Create a new branch

\$ git branch <branch\_name>

Create a new branch and Switch

\$ git checkout -b <br/>branch\_name>

Switch between branches

\$ git checkout <branch\_name>

Commit all changes in the tracked file

\$ git commit -a

Delete a local branch

\$ git branch -d <branch\_name>

Merge branch into Current HEAD

\$ git merge <branch\_name>

## **UNDOING CHANGES**

Undo all of the changes made in <commit>

\$ git revert < commit>

Remove <file> from the staging area, but leave the WD unchanged.

\$ git reset <file\_name>

## CONFIGURATION

Define the author name to be used for all commits by the current user.

\$ git config --global user.name <name>

Define the author email to be used for all commits by the current user.

\$ git config --global user.email <email>

Open the global configuration file in a text editor for manual editing.

\$ git config --global --edit

## **UPDATE & PUBLISH**

List all recently configured remotes

\$ git remote -v

Add a new remote repository

\$ git remote add <name\_here> <url>

Fetch all changes from <remote> but do not integrate with HEAD

\$ git fetch <remote>

Fetch all changes and merge with HEAD

\$ git pull <remote> <branch>

Publish local changes on a remote

\$ git push <remote> <br/> <br/> <

Rebase your current HEAD onto <br/> <br/>branch>

\$ git rebase <branch>

Abort a rebase

\$ git rebase --abort

Continue a rebase

\$ git rebase --continue

## **HOW GIT WORKS**

- Create a "repository" (consultadd) with a git hosting tool (like GitHub, Bitbucket)
- Clone the repository to your local machineAdd a file to your local repo and "commit" (save) the changes with some message
- "Push" your latest changes to your master branch
- Make a change to your file with a git hosting tool and commit
- "Pull" the latest changes to your local machine
- Create a "branch" (testing), make a change, commit the change
- Open a "pull request" (propose changes to the master branch)
- "Merge" your branch to the master branch