**GIT & GITHUB TUTORIAL**

**STEP 1: Install git on OS/ubuntu**

sudo apt update

sudo apt install git

git config --global user.name "your name"

git config --global user.email "youremail@yourdomain.com"

git config --list

**STEP 2: Initialize git to directory**

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git init

Initialized empty Git repository in /home/ridam/Desktop/gaurav/myprojects/.git/

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git --version

git version 2.17.1

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git config --list

user.name=Gaurav

user.email=shrigsr@gmail.com

core.repositoryformatversion=0

core.filemode=true

core.bare=false

core.logallrefupdates=true

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git status

On branch master

No commits yet

Untracked files:

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

test.txt

nothing added to commit but untracked files present (use "git add" to track)

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git add test.txt

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git commit -m 'checking

[master (root-commit) 6aa3f9b] checking

1 file changed, 1 insertion(+)

create mode 100644 test.txt

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git log

commit 6aa3f9bc2f3eb207b988ea4d11e037ace7b03238 (HEAD -> master)

Author: Gaurav <shrigsr@gmail.com>

Date: Thu Dec 30 12:11:31 2021 +0530

checking

**STEP 3: Remote Setup with Github Generating ssh key and add(under setting ssh option)**

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ ssh-keygen -t ed25519 -C "shrigsr@gmail.com"

Generating public/private ed25519 key pair.

Enter file in which to save the key (/home/ridam/.ssh/id\_ed25519):

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /home/ridam/.ssh/id\_ed25519.

Your public key has been saved in /home/ridam/.ssh/id\_ed25519.pub.

The key fingerprint is:

SHA256:BqWlg/znpEaT98IUQwgQGJUj533cb0zRYWC5dhib8IM shrigsr@gmail.com

The key's randomart image is:

+--[ED25519 256]--+

|.+++.. .+ o+o. |

|o +. ..\*..+.. |

| + oo.=.o+ B |

| . ..o+EoX . |

| .= S= o |

| . @ .+ |

| o +.. |

| . . |

| |

+----[SHA256]-----+

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ eval "$(ssh-agent -s)"Agent pid 14298

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ ssh-add ~/.ssh/id\_ed25519

Identity added: /home/ridam/.ssh/id\_ed25519 (shrigsr@gmail.com)

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ clip < ~/.ssh/id\_ed25519.pub

Command 'clip' not found, but can be installed with:

sudo apt install geomview

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ sudo apt install geomview

[sudo] password for ridam:

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following packages were automatically installed and are no longer required:

libllvm9 linux-hwe-5.4-headers-5.4.0-52 linux-hwe-5.4-headers-5.4.0-53

linux-hwe-5.4-headers-5.4.0-60 linux-hwe-5.4-headers-5.4.0-62

linux-hwe-5.4-headers-5.4.0-65 linux-hwe-5.4-headers-5.4.0-66

linux-hwe-5.4-headers-5.4.0-67 linux-hwe-5.4-headers-5.4.0-70

linux-hwe-5.4-headers-5.4.0-71 linux-hwe-5.4-headers-5.4.0-77

linux-hwe-5.4-headers-5.4.0-80 linux-hwe-5.4-headers-5.4.0-81

linux-hwe-5.4-headers-5.4.0-84 linux-hwe-5.4-headers-5.4.0-86

linux-hwe-5.4-headers-5.4.0-87 linux-hwe-5.4-headers-5.4.0-89

Use 'sudo apt autoremove' to remove them.

The following additional packages will be installed:

libgeomview-1.9.5 libmotif-common libxm4

The following NEW packages will be installed:

geomview libgeomview-1.9.5 libmotif-common libxm4

0 upgraded, 4 newly installed, 0 to remove and 15 not upgraded.

Need to get 4,887 kB of archives.

After this operation, 12.2 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 libmotif-common all 2.3.8-2build1 [10.8 kB]

Get:2 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 libxm4 amd64 2.3.8-2build1 [993 kB]

Get:3 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 libgeomview-1.9.5 amd64 1.9.5-2 [443 kB]

Get:4 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 geomview amd64 1.9.5-2 [3,440 kB]

Fetched 4,887 kB in 4s (1,319 kB/s)

Selecting previously unselected package libmotif-common.

(Reading database ... 452976 files and directories currently installed.)

Preparing to unpack .../libmotif-common\_2.3.8-2build1\_all.deb ...

Unpacking libmotif-common (2.3.8-2build1) ...

Selecting previously unselected package libxm4:amd64.

Preparing to unpack .../libxm4\_2.3.8-2build1\_amd64.deb ...

Unpacking libxm4:amd64 (2.3.8-2build1) ...

Selecting previously unselected package libgeomview-1.9.5.

Preparing to unpack .../libgeomview-1.9.5\_1.9.5-2\_amd64.deb ...

Unpacking libgeomview-1.9.5 (1.9.5-2) ...

Selecting previously unselected package geomview.

Preparing to unpack .../geomview\_1.9.5-2\_amd64.deb ...

Unpacking geomview (1.9.5-2) ...

Setting up libgeomview-1.9.5 (1.9.5-2) ...

Setting up libmotif-common (2.3.8-2build1) ...

Setting up libxm4:amd64 (2.3.8-2build1) ...

Setting up geomview (1.9.5-2) ...

Processing triggers for man-db (2.8.3-2ubuntu0.1) ...

Processing triggers for gnome-menus (3.13.3-11ubuntu1.1) ...

Processing triggers for mime-support (3.60ubuntu1) ...

Processing triggers for desktop-file-utils (0.23-1ubuntu3.18.04.2) ...

Processing triggers for install-info (6.5.0.dfsg.1-2) ...

Processing triggers for libc-bin (2.27-3ubuntu1.4) ...

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ clip < ~/.ssh/id\_ed25519.pub

Usage: clip [-v axisx,y,z,...] [-g value] [-l value] [-s nslices[,fraction]]

[-sph centerx,y,z,...] [-cyl centerx,y,z,...] [-e] [file.oogl]

Reads an OOGL object from file.oogl (or stdin if omitted).

Slices it against a (series of) planes whose normal vectors are given

by the -v argument (default 1,0,0,0,...).

Given -g, selects portions where <point> dot <vector> > <pvalue>.

Given -l, selects portions where <point> dot <vector> < <nvalue>.

Given both, takes the portion lying between those two values.

With -s, emits a series of slices spaced <spacing> units apart.

With -e, emits just two numbers instead of geometry: range of function-values

which the object spans.

-sph : Slice against a sphere, not a plane. -g/-l gives radius.

-cyl x,y,z... : Slice against a cylinder whose axis passes through x,y,z...

-v gives axis direction, -g/-l radius.

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ cat ~/.ssh/id\_ed25519.pub

ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIEcx0uXjCddyQwQrRFnkEKzPMN4Gqcm3FCyGHKKi24I8 shrigsr@gmail.com

***//ssh key (ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIEcx0uXjCddyQwQrRFnkEKzPMN4Gqcm3FCyGHKKi24I8 shrigsr@gmail.com)***

**STEP 4: Pushing file on Remote server/repository**

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git remote add origin git@github.com:Gauravsingr/wordpress-kadence.git

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git remote

origin

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git remote -v

origin git@github.com:Gauravsingr/wordpress-kadence.git (fetch)

origin git@github.com:Gauravsingr/wordpress-kadence.git (push)

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git push -u origin master

Counting objects: 3, done.

Writing objects: 100% (3/3), 218 bytes | 218.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0)

To github.com:Gauravsingr/wordpress-kadence.git

\* [new branch] master -> master

Branch 'master' set up to track remote branch 'master' from 'origin'.

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git push -u origin master

Branch 'master' set up to track remote branch 'master' from 'origin'.

Everything up-to-date

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git add Practice

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git commit -m 'checking'

[master 85e9638] checking

7 files changed, 249 insertions(+)

create mode 100644 Practice/Masonry-CSS-master/LICENSE

create mode 100644 Practice/Masonry-CSS-master/README.md

create mode 100644 Practice/Masonry-CSS-master/css/style.css

create mode 100644 Practice/Masonry-CSS-master/index.html

create mode 100644 Practice/code.min.js

create mode 100644 Practice/switch.php

create mode 100644 Practice/table.html

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ 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

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git push -u origin master

Counting objects: 12, done.

Delta compression using up to 2 threads.

Compressing objects: 100% (11/11), done.

Writing objects: 100% (12/12), 33.58 KiB | 3.36 MiB/s, done.

Total 12 (delta 0), reused 0 (delta 0)

To github.com:Gauravsingr/wordpress-kadence.git

6aa3f9b..85e9638 master -> master

Branch 'master' set up to track remote branch 'master' from 'origin'.

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git

usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]

[--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]

[-p | --paginate | --no-pager] [--no-replace-objects] [--bare]

[--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]

<command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)

clone Clone a repository into a new directory

init Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)

add Add file contents to the index

mv Move or rename a file, a directory, or a symlink

reset Reset current HEAD to the specified state

rm Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)

bisect Use binary search to find the commit that introduced a bug

grep Print lines matching a pattern

log Show commit logs

show Show various types of objects

status Show the working tree status

grow, mark and tweak your common history

branch List, create, or delete branches

checkout Switch branches or restore working tree files

commit Record changes to the repository

diff Show changes between commits, commit and working tree, etc

merge Join two or more development histories together

rebase Reapply commits on top of another base tip

tag Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)

fetch Download objects and refs from another repository

pull Fetch from and integrate with another repository or a local branch

push Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some

concept guides. See 'git help <command>' or 'git help <concept>'

to read about a specific subcommand or concept.

**STEP 5: Add new file and Pull/Push file on Remote server/repository**

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git add gitut

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ 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)

new file: gitut/Git-Cheat-Sheet.pdf

new file: gitut/SWTM-2088\_Atlassian-Git-Cheatsheet.pdf

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git commit

Aborting commit due to empty commit message.

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git commit -m "tut done"

[master c12a980] tut done

2 files changed, 0 insertions(+), 0 deletions(-)

create mode 100644 gitut/Git-Cheat-Sheet.pdf

create mode 100644 gitut/SWTM-2088\_Atlassian-Git-Cheatsheet.pdf

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ 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

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git push -u origin master

Warning: Permanently added the ECDSA host key for IP address '13.234.176.102' to the list of known hosts.

To github.com:Gauravsingr/wordpress-kadence.git

! [rejected] master -> master (fetch first)

error: failed to push some refs to 'git@github.com:Gauravsingr/wordpress-kadence.git'

hint: Updates were rejected because the remote contains work that you do

hint: not have locally. This is usually caused by another repository pushing

hint: to the same ref. You may want to first integrate the remote changes

hint: (e.g., 'git pull ...') before pushing again.

hint: See the 'Note about fast-forwards' in 'git push --help' for details.

**Git pull origin**

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git pull origin masterremote: Enumerating objects: 4, done.

remote: Counting objects: 100% (4/4), done.

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

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

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

From github.com:Gauravsingr/wordpress-kadence

\* branch master -> FETCH\_HEAD

85e9638..1451bbb master -> origin/master

Merge made by the 'recursive' strategy.

pulltest.txt | 56 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++

1 file changed, 56 insertions(+)

create mode 100644 pulltest.txt

ridam@workstation17-H110M-S2:~/Desktop/gaurav/myprojects$ git push origin masterCounting objects: 7, done.

Delta compression using up to 2 threads.

Compressing objects: 100% (7/7), done.

Writing objects: 100% (7/7), 2.33 MiB | 1.59 MiB/s, done.

Total 7 (delta 1), reused 0 (delta 0)

remote: Resolving deltas: 100% (1/1), done.

To github.com:Gauravsingr/wordpress-kadence.git

1451bbb..919f793 master -> master