## Git Hands-on Commands

Commands	Locations	Comments
system	/etc/gitconfig	One of the git configuration
		locations
global	~/.gitconfig or	One of the git configuration
	~/.config/git/config	locations
local	.git/config	One of the git configuration
		locations
Git config –list –show-origin		In one short, you will be able
		to find the location of each
		config files
git configglobal user.name		Configure the User Name
"Sameer Zulfi"		before start of any project
git configglobal user.email		Configure the User Email
sameer@example.com		before start of any project
git configglobal core.editor vi		Configure the Vi editor
Git configlist		To find out the list of env.,
		variables configured
Git config -h		This is the help file for config
Git add -h		Help file for add. You can add
		any commands in between
		to find out the help file
git log		Will display all the commits
Git log -p		P means patched output. It
		will display what was the
		content changed with the file
		name in detail manner
git log –2		Show the last recent 2
		commits
Git log -since="2008-01-15"		This pull the commits which
		happened since this date
Git log -since=2.weeks		This pulls the commits which
		happened since last two
		weeks, you can add days or
		hours etc.
Git logstat		This command just give you
		which file changed and how
		many lines modified
Git log <branch name=""></branch>		This will pull the logs for that
		particular branch
git logpretty=oneline		This will give you the logs in
		pretty oneline format
Git logoneline		This will reduce the hash
		characters and provide you

	the commits in oneline as
git logpretty=format:"%h - %an, %ar : %s"	well  This provides you output with commithash, author
	name, author committed date in relative format and
cit les neme entre	subject of the commit
git logname-only	It will just give you only the filename which was modified
git log –name-status	Will tell you the status of the
	files like (git status –s)
Git log –relative-date	Date will be displayed in
	relative timing. Like 20 hours
	ago or 2 weeks ago etc.,
Git log –author="Sameer"	Will fetch all the commits
	done by Sameer
Git log –grep="something"	This will search the word
	something in all the commit
	messages and fetch the result which is matching
git logpretty=format:"%H"	Without any spaces after
group pressy remain year	format: This will display all
	the hash characters in long
	length
sit los proteces ou "0/h"	This will display hash
git logpretty=format:"%h"	This will display hash commits in short format
git logpretty=format:"%ad"	This will show the committed
The oneline and format options are particularly	date in normal format
This option adds a nice little ASCII graph s	
git logpretty=format:"%h %s"	This produces a nice ASCII
graph	graph if you have lot of
	branches
Git loggraph	Will show the detail ASCII
	graph. This graph will be
	helpful if you have multiple
git logsince="2 years 1 day 3	branches  This will provide you exactly
minutes ago"	what you want
git logafter="2019-08-15"	This provides you after this
	data, all the commits will be
	displayed

	I	
git logbefore="2019-09-15"		Provide all the commits
		before this date
Git log -pretty="%h - %s" -		This provides you the
author="Sameer" -		commits in between these
since="2008-10-01" -		date
before="2008-11-01"		
Git log -branches=*		This will list out all the logs
		from all the branches
Git commitamend		You can amend your recent commit messages
Git checkout filename		Unmodifying the modified
Git thetrout mename		file
Git reset HEAD filename		Unstaging a staged file
git configglobal alias.co		Git co instead of git checkout
checkout		
git configglobal alias.br		Git br instead of git branch
branch		
git configglobal alias.ci		Git ci instead of git commit
commit		
git configglobal alias.st status		Git st instead of git status
git configglobal alias.last 'log		Type "git last" and analyse
-1 HEAD'		what's going on
.gitignore file	Usually you need to create this	Blank lines or lines starting
	file in the root repository	with # are ignored.
	directory	
	*.a	Ignore all .a files
	/TODO	Only ignore the TODO file in
	·	the current directory, not
		subdir/TODO
	Build/	Ignore all files in any
		directory named build
	Doc/*.txt	Ignore doc/notes.txt, but not
		doc/server/arch.txt
	Doc/**/*.pdf	Ignore all .pdf files in the
		doc/ directory and any of it's
		subdirectories
		https://github.com/github/gi
		tignore this link has been
		updated by many developers
		and you will have an idea
		further
Git diff		Differences between working
		directory and staging area
Git diff -stated or git diff		Differences between staging
cached		area and last committed
		snapshot
Git difftool		Try this and analyze
Git commit		This will open up the default
		editor
Git commit -am		Skipping the staging area
Git rm index.html		Removes the files
	<u> </u>	

Git tag	Will list out all the tags
Git tag -a v1.0 -m "version 1.0"	This adds the tag to the recent commit
Git show v1.0	This will list out the tag
	connected to the particular
	commit details as well
Git tag –a v1.2 <commithashid></commithashid>	This will tag to the one
	particular hash id
Git push origin v1.5	This will push the tag to your
	remote repo
Git push origintags	This will push all your tags at
	once to your remote repo
Git tag -d <tagname></tagname>	this will delete the tag from
	your locate repo
Git push origin –delete	This will delete the tag from
<tagname></tagname>	your remote repo
Git init	Initialize the git repo
Git init directoryname	Will create the directory and
,	initialize the git
Git status -s	Will give you the status in
	very short format i.e, the
	first column is staging and
	second column is working
	directory
git rmcacheddry-run	Check what this command
firstfile secondfile	does
git branch testing	This will create a new branch
	name "testing"
git logonelinedecorate	To check where the HEAD is
	pointing to. Infact we can
	just use git log command
	also for this
Git checkout testing	This will switch the HEAD
	from master to testing. i.e,
	switching the branch from
	master to testing
git logonelinedecorate	In ASCII graph with detail
graphall	history of your branches
Git checkout –b testing	This will immediately create
	a branch and switch it to that
	branch . this is equivalent
	two commands (git branch
	testing & git checkout
C'A was and how a large of	testing)
Git merge branchname	This will merge the branches.
	For example if you want to
	merge hotfix with your main
	master branch. You need to
	type "git merge hotfix" .

		Condition is you need to be
		on master branch
Git branch –d branchname		This will delete the particular
		branch
Git branch		This will list out the # of
		branches
Git branch -v		This will list out the recent
		commits done on each
		branches
Git branchmerged		This will list out how many
		branches are merged with
		the current branch
Git branch -no-merged		This will list out how many
		branches are not yet merged
		with the current branch
Git branch –no-merged master		This will tell you what are
		branches not merged with
		the master branch.
Git remote show		This will provide full list of
remoteservername	Origin for a stan	remote branches
	Origin/master	Means on the origin remote
	Origin/hotfiyhranch	server / master branch
	Origin/hotfixbranch	Means on the origin remote server/hotfix branch
Git clone		This clones your remote repo
https://github.c		This ciones your remote repo
om/beginners-		
sameer/GitBranchingRemotebe		
sant.git		
Git fetch remoteservername	For ex : git fetch origin	It fetches any data from the
		remote server that you don't
		yet have and it updates your
		local database
Git remote add shortname	Git remote add projalpha	This is alternative for git
remoteservername	https://github.com/beginners-	clone.
	sameer/GitBranchingRemoteb	
Cit much management	esant.git	This will people the above the
Git push remoteservername branchname	Git push origin serverfix or git	This will push the changes to the remote server called
branchname	push origin serverfix:serverfix or git push origin	"origin" with the branch
	serverfix:awesomebranch	named "serverfix
Git checkout –b	Git checkout –b serverfix	This creates a local branch
localbranchname	origin/serverfix	called "serverfix" and
remoteservername/branchnam	5.18.11, 36.1 (6.11)	switched it to that then it
e		tracks with remote server
		called origin with remote
		branch "serverfix"
Git checkout –track		Branch serverfix set up to
origin/serverfix		track remote branch
		serverfix from origin.

		Cuitched to a new branch
		Switched to a new branch 'serverfix'
git checkout -b sf origin/serverfix		Branch sf set up to track remote branch serverfix
		from origin. Switched to a new branch
		'sf'. Now, your local branch
		sf will automatically pull
		from origin/serverfix
git branch -u origin/serverfix		Branch serverfix set up
		to track remote branch
		serverfix from origin.
git branch -vv		This will list out what
		tracking branches you have setup
git fetchall		This will fetch all the remote
		repos branches info
Git push remoteservername –	git push origindelete	This will delete the remote
delete remotebranchname	serverfix	branch name
git remote rename	Git remote rename origin main	The origin will be renamed to
remoteservername		main. If you type "git
newremoteservername		remote" now, it will give you only main.
Git remote remove	Git remote remove main	It will remove the remote
remoteservername		server from the local machine
How to avoid typing https	Step1 : git config	Next time when you push or
password every time when you	credential.helper store Step2:	pull, it will not ask you to
push and pull	After you hit enter the previous	type the credentials
	command, type this command	
	"git push https://entire repo name" enter. That's all	
git nuchcat-unstroam	git pushset-upstream origin	This will setup the remote
git pushset-upstream remoteservername	serverfix	server and branch name with
remotebranchname	Serverna	respect to the current
remotebranemame		branch you are on
		aramon you are on