Definition of keywords/phrases in VC with Git and GitHub

Keywords	Description	
Origin	Is one default remote repository, usually there is one.	
HEAD	the last commit of the active/current branch	
main	The default main branch,	
Branch	An independent line of development	
index	The proposed next commit—staged file	
Repository/repo	Centralized storage with the revision history of all related & specified files.	
Workspace	copies of the files in the local machine of the user	
Tag	Represent a particular snapshot of a project at a given time.	
Pull/Update	Update the local working copy with the latest changes	
Commit/Check-In	Store a change in the central Version Control storage.	
fetch	download objects and refs from another repository	
pull	Fetch from and integrate with another repository or a local branch	
Push	Used to send commits to the determined central repository.	

A situation where 2 developers try to commit changes in the same region of the same file.

Combining changes in different working copies to the same file in the repository.

Moving to the working directory

Conflict Merge

Keywords	Description
pwd	Check your present working directory(pwd)
cd ~/your folder dir	Your folder directory after pwd
cd drag your folder	If you are using mac you can drag the folder there
mkdir <foldername></foldername>	Create folder in the directory
Is	List the files and folders in the current folder
Ls -la	List the files and folders in the cd including hidden

Git installation check

gitversion	Check git version if installed already
git	List git details if installed already
	,

Configure Name & Email for commit and push to remote Git

git configlist		
git configlistshow-origin		
git configglobal user.name "Your Name" #globa	al indicates applicable across the system.	
git configglobal user.email email@example.com	<u> </u>	
.gitignore	Tell git which files/folders it SHOULD NOT track	
rm -rf .git*	Remove git from project	
git configglobal alias.shortcut <command/>	Set up git alias	
git configglobal alias.s "status"	git s = git status	
git configglobal alias.ch "checkout"		

git configglobal alias.co "commit" git configglobal alias.br "branch"			
	it initialization	n	
git init	Create an empty Git	repo or reinitialize an existing one.	
git init c:\local_repo_name\repo_folder_name	Chave status of word	Line diventant and station and	
git status		king directory and staging area	
git status –short or git status -s		, A-added to stage, M-Modified D-Deleted files	
git clean git clean -n	Remove the untrack	ed files	
git clean -f			
git clean -I			
git clean -df			
to exclude all.DS_Store files from your future repositor echo .DS_Store >> ~/.gitignore_global git configglobal core.excludesfile ~/.gitignore_stagging-making	ore_global	dy for commit	
		*	
git add <folder>/</folder>		the folder(and subfolders)	
git add <filename></filename>	Stage individual file	DC - J Cl J - J	
git add .		dified files, without deleting.	
git add -a	Stage all files	deleted without pays	
git add -u	Stages modified and	deleted, without new.	
git add c:\local_repo_name\repo_folder_name/sub_	folder_name		
Undoing	g change and	staging	
git reset <file folder=""></file>	Release file from sta	ging back to working	
Git reset .	Reset new and modi	ified file	
git checkout <file folde<="" td=""><td>Removing change m</td><td>ade to file/folder</td></file>	Removing change m	ade to file/folder	
git checkout	Remove change ma	de to new and modified files	
git rm	Remove tracked files	s from the staging area and (but not or) working director	
git rm file_name_1 file_name_2	git rm file_name_1 f	ile_name_2	
git rmcached file_name_1			
git rm -r folder_name			
Committing-after staging	is committing	g/creating point of save	
git commit -m "message"			
git commit -a -m "message"	commit git without s		
git commit -m "message" –amend Update previous			
	Navigating between co	mmits	
git checkout <commit_hash branch_name> View a</commit_hash branch_name>			
git checkout <hash branch> <file folder> Restore the</file folder></hash branch>	contents of files back	to a prev commit	
git checkout <hash branch> file Restore file</hash branch>			
git checkout <hash branch="" =""> folder/ Restore all files</hash>			
git checkout <hash branch> . Restore all files in proje</hash branch>		t and branches	
Log-to see histo			
git log	View the commit history of a branch		
_ · ·		ails of changes	
git logall		Show all commits (not just current branch)	
git logallgraph	Show branching visu	ally in the command line	
git logoneline			
git logonelineallgraph			
git logonelineallgraphdecorate			
git log _ protty-format:"%cp committed %h op %cd"		Customise git log format	
git logpretty=format:"%cn committed %h on %cd" Filter git log output			

git loggrep="commit_message_key_word"		
git log -S"file_content_key_word"		
git log branch_name_1 branch_name_2		
git diff	Inspect changes in a repository	
git diff file_name		
git diff commit_id_1 commit_id_2		
git diff branch_name_1 branch_name_2		
git blame Review a file's modification history, often us	d together with git log	
git blame file_name		
git blame -L 1,10 file_name		
git reset	Move both current HEAD pointer ar	nd branch ref pointe
git resetsoft commit_id	pointer ut	
git resetmixed commit_id		
git resethard HEAD~1	remove the latest local commit.	
git resethard HEAD~3	Remove the latest three local comm	nits
git push origin HEADforce	Delete remote commit-push local cl	
git push origin HEADlorce git resethard commit_id/hash	Delete remote commit-push local ci	iunge
git resetnard commit_id/nash		
git reset commit_id me_name git resethead	https://hackernoon.com/how-to-de	loto commits from romoto in git
Git revert		elete-commits-from-remote-in-git
	Undo changes to a commit history	
git revert HEAD		
git revert commit_id		
git revert -n HEAD	Course and let de commentate de condense a	
git stash	Save and hide committed and unco	mmitted changes
git stash save "stash_message"		
git stash -u		
git stash -a		
git stash -p		
git stash list		
git stash show		
git stash pop		
git clean -n -d -x		
git tag	Snapshot specific points in a reposit	ory history
git tag		
git tag -a tag_name -m "tag message"		
git tag -a tag_name commit_id		
	GitHub	
git remote	Manage remote repositories' inform	nation stored locally
"git remote rename origin new_name"	To rename default remote repo nan	ne to your choice
git remote add <remote_name> <url> Link local repo</url></remote_name>	o a remote repo and git it a name	
git remote	List all remote repositories that are	linked
git remote -v	List all remote repositories (but witl	n more detail)
git remote remove <remote_name> Removes a link to</remote_name>	a remote repository	
git remote remove origin	·	
git remote rm repository_name		
git configglobal credential.username <username> Co</username>	nfigure your GitHub username so vo	u can get access to your Github reposito
git push <remote_name> <branch></branch></remote_name>	Upload local repos content to a rem	
git push origin main	, , , , , , , , , , , , , , , , , , , ,	
git pusn -u origin local branch name		
git push -u origin local_branch_name git branch	Shows a list of available branches	

git push <remote_name> <branch> -f</branch></remote_name>	Force push to remote repo -it will overwrite what is in the remote repo		
git fetch origin master	Download content from remote repository, but doesn't force the merge		
	Cloning		
git clone <url></url>	Use http url create a copy of remote repo on your local machine		
git clone <url> <folder_name></folder_name></url>			
git fetch	Update all remote tracking branches		
git pull <remote_name> <branch></branch></remote_name>	Update local repo with latest update from remote repo		
git pull origin main			
git pull origin mainset-upstream set-up up:	stream shortcut so that the next time you are main branch, just run git pull		
Branching- manage br	canches of a repo, e.g. create, list, rename and delete		
git branch	List out existing branch		
git branch <branch_name></branch_name>	Creates a new branch		
git branch feature1	Create a new branch named feature1		
git branch -a			
git branch -m renamed_branch_name			
git branch -d existing_branch_name			
git checkout <branch_name></branch_name>	Switch to a different branch and start working on		
git checkout <branch_name></branch_name>	Switch to a different branch and start working on it		
Git checkout out feature1	Example for branch named feature1		
Git checkout -b [branchName]	Switch from HEAD to new [branchName] and switch to it		
git checkout -b emergency_fix	Emergency branch		
git branch -D <branch_name></branch_name>	Delate a branch		
git branch -D feature1	Delete the feature1 branch		
git rebase	Move one branch to the tip of another branch		
git rebase base_branch_name	*do not rebase shared branchs		
git reflog	View the HEAD change history of all local branches		
git reflog			
git reflogall -3			
	Merge		
git merge [branchName]	Merge current branch [Head] with [branchName]		
git merge [branchName] -m "Message"	Include merge comment/message		
git merge [localBranch1] [localbranch2]	Join two branches together		