Cheatography

Git Cheat Sheet by KYS1477 via cheatography.com/186487/cs/39697/

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Create a git repository for every new project

Create a new branch for every new feature

Branch early, and branch often

SSH keys are how we securely communicate btw our computer and GitLab

Typical	Workflow	

git clone <repo></repo>	clone repo located at <repo> onto local machine, clone with SSH</repo>
cd my_project	after git clone, go to the directory, before using all the git commands
git checkout -b my_branch origin/re- mote_branch1	create and checkout my_branch, that is tracking remote_branch1
git add <file_name></file_name>	
git commit -m "messag- e"	commit the change to my_branch
git pull	update local my_branch with remote commits and update all remote tracking branches
git merge origin/remot- e_branch2	merge remote_branch2 with the branch that you are currently on (my_branch)
git push origin	push the branch that you are on (my_br- anch) to origin (remote repo)
(create a merge request on GitLab UI)	rmb to change target branch

Typical Workflow 2 - PyCharm

git pull	before pushing your changes, sync with the remote and make sure your local copy of the repository is up to date to avoid conflicts	
git push	push changes from the current branch	
define remote and select target branch	click on Define remote link (appears when there is no remotes in the repository), click on the branch name	
https://www.jetbrains.com/help/pycharm/commit-and-push-chang- es.html#force-push		
Pushing and m	nerging code change	
git add <fi- le_name> / git addall</fi- 	add the file to the staging area	
git commit - m "short msg"	takes a permanent snapshot of the current state of your repository that is associated with a unique identifier	
git push origin <br- anch_n- ame></br- 	pushes a local branch(es) to a remote repository (origin - the conventional shorthand name of the url for the remote repository)	
git checkout main	checkout the default branch of your repo	
git merge <branch_n- ame></branch_n- 	merge your branch into the default branch	
git push	push the changes	

https://docs.gitlab.com/ee/tutorials/make_first_git_commit/

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By **KYS1477**

cheatography.com/kys1477/

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Useful Commands

folder

create a branch

change to the branch

-u = --set-upstream

git init

git branch

<branch_name>

git checkout

<branch_name>

git branch -u

origin/remote_branch git fetch

git branch -m new_branc-

h_name git branch --

delete branch-_name

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Check	
git status	list which files are staged, unstaged, and untracked
git branch	list all of the branches in your repo -r to list the remote branches -a to see all branches
git diff	show unstaged changes between your index and working directory
git log	list the version history for the current branch
git Is-files	check which files are in your staged area
git branch -vv	check tracking branches

creates a new git repository, use this command while inside the project folder, this will create a .git

Useful Commands (cont)

git stash app stash@{n}	ly restore a git stash, run git stash list to see the list		
More info on setting upstream https://devconnected.com/how-to-s- et-upstream-branch-on-git/ Origin is the name which git gives to the remote repo that you cloned from			
Making Chan	iges		
git reset hard	to discard all local changes (new files created in the local Git workspace that have never been added to the index will remain in the project folder after the hard reset)		
git reset <file_nam- e></file_nam- 	undo git add - remove staged version of the file		
git reset HEAD~1	undo the prev commit		
git revert HEAD	undo the prev commit (for remote branch)		
git commit amend - m "new message"	edit commit msg		

set the tracking branch to be remote branch	message		
u –	To be classified		
pulls in all the commits from your remote but doesn't make any changes to your local files (will overwrite your current files)	git rebase <branc- h_name></branc- 	copy our work from the current branch we are on to branch_name	
rename a branch	git checkout <branc- h_name>^</branc- 	move up one commit of branch _name	
delete a branch	git checkout HEAD^ (~4)	move upwards in a commit tree	
	git branch -f <branc- h_name> <commi- t_hash></commi- </branc- 	reassign a branch to a commit	
	git stash	takes your uncommitted changes (both staged and unstaged), saves them away for	

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