

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

Principles
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_branch) 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 merging code change		
git add <fi- le_name&gt; /</fi- 	add the file to the staging area	

Pushing and r	nerging code change
git add <fi- le_name&gt; / 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&gt;</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    ame>	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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Useful Commands (cont)

et-upstream-branch-on-git/

git stash apply

stash@{n}

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	check tracking branches

Useful Comma	nds
git init	creates a new git repository, use this command while inside the project folder, this will create a .git folder
git branch <branch_n- ame&gt;</branch_n- 	create a branch
git checkout <branch_n- ame&gt;</branch_n- 	change to the branch
git branch -u origin/remot- e_branch	<ul><li>-u =set-upstream</li><li>set the tracking branch to be remote_branch</li></ul>
git fetch	pulls in all the commits from your remote but doesn't make any changes to your local files (will overwrite your current files)
git branch -m new_branc- h_name	rename a branch
git branch delete branch- _name	delete a branch

Malina Ohaa			
Making Char	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&gt;</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		

the list

More info on setting upstream https://devconnected.com/how-to-s-

Origin is the name which git gives to the remote repo that you cloned

restore a git stash, run git stash list to see

To be classified	
git rebase h_name>	copy our work from the current branch we are on to branch_name
git checkout <branc- h_name&gt;^</branc- 	move up one commit of branch _name
git checkout HEAD^ (~4)	move upwards in a commit tree
git branch -f branc- h_name> <commi- t_hash&gt;</commi- 	reassign a branch to a commit
git stash	takes your uncommitted changes (both staged and unstaged), saves them away for later use



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