

Git Cheat Sheet

Git is a version control system.

The essentials: Using Git				
git clone	Clone a Git repository to your local computer			
git fetch	t fetch Fetch changes from a remote repository			
git pull	pull Fetch and merge changes from a remote repository			
git status	See a summary of local		changes, remote commits, and untracked files.	
git diff	See specific local changes. Use name-only to see filenames.			
git add	Stage changes to tracked and untracked files.			
git commit	Create a new commit with changes previously added.			
git push	Send changes to your configured remote repository (like GitLab or GitHub).			
Important options: Keeping things organized				
git reset HEAD		Get bad	Get back to the last known commit and unstage files.	
git add -u		Add only updated, previously committed files.		
git loggraphoneline		See a pretty branch history. Create an alias (git lg) for easy access.		
Basic branching: Branches represent a series of commits				
git branchall			List all local and remote branches	
git checkout bugfix			Change to an existing branch called bugfix	
git checkout -b dev main			Make and checkout a branch called dev based on main	
git checkout main			Merge branch changes from dev into main	
git merge dev				
Pushing changes: Sending data from your local repository to a remote repository				
git remote -v View		View	all configured remotes	
git push origin HEAD Push		Push	commits located at the HEAD of your repo to the origin repo	
git push origin +HEAD Push		Push	commits, forcing remote to adopt local changes	
git push origin -d dev		Delet	e dev branch from remote after pushing changes	





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Basic flow: Daily usage of Git, including important options				
git init demo && cd demo				
cp ~/Code/mycode.py mycode.py	Initialize a local Git repository, creating the directory if it doesn't exist. Change directory to the repo, add files, and commit.			
git add mycode.py				
git commit -m 'My first commit'				
git show				
git diff	As you begin to hack on local files, you commit them at regular intervals. Theall option commits changes to existing files (use git add to add new files).			
git commitall -m 'Another commit'				
git loggraphabbrev-commit				
git resetsoft HEAD~3	After a while, you have 3 commits that are meaningful as a single commit.			
git diffcached				
git dillcached				
git commit -am 'Message for 3 commits'				
git push origin HEAD	Lastly, you push your local changes to a remote repository, designated as origin .			
Working with a remote repository: Contributing to public repositories				
git fetchall	Download all commits and references			
git pullrebase <remote> <branch></branch></remote>	Merge all commits since your last common commit from the remote branch without a merge commit			
git stash	Save uncommitted changes			
git stash pop	Restore saved changes			
git add <file></file>	Add a file to the staging area, to be committed			
git commit -m 'commit message'	Most projects have a format for commit messages.			
git checkout -b <new_branch></new_branch>	Create and checkout a branch			
git checkout main && git pullrebase	Checkout and update the main branch			
git reset headhard origin/main	WARNING: Erase all local changes			
git push -u origin HEAD	Push your changes and the current branch to the origin repository			
git push origin HEAD	Push your changes to the origin repository			

