

## Git Commands Cheat Sheet

by sertalphilal via cheatography.com/121942/cs/22478/

Main Commands	
git init	Create git repository here (decentralized)
git initbare	Create bare git repository (centralized)
git clone repo	Clone repository at address repo
git clone -b branch repo	Clone branch from repository

Status	
git status	List changes
git statusshortbranch	List changes (compact)
git log	Display commit history
git logonelinedecorategraph - -all	Display visual commit history
git configglobal core.autocrlf true	Ignore OS-specific line endings

Oit-	
Commits	
git add hello.py	Add <i>hello.py</i> (or stage changes)
	for next commit
git rmcached hello.py	Remove hello.py from git tracking
git checkout hello.py	Discard all local changes to hello.py
git add -u	Stage all changes under tracking
git add -A	Stage all changes (new files and deletions included)
git update-indexassume unchanged <i>hello.py</i>	Ignore changes to hello.py locally
git addinteractive	Review and stage changes
git commit	Create a commit (snapshot)
git commit -m "message"	Create a commit with message
git commit -a	Commit every change under tracking
git commit -ammend	Combine current and last commit (correction)
git diff	Show all unstaged differences
git diffcached	Show all differences including staged ones

Commits (cont)	
git diff branch1bra- nch2	See differences between branch1 and branch2
You can use commits instead of branch names. <i>HEAD</i> refers to current point in git.	

Reseting	
git resetsoft commit	Stage all changes since <i>commit</i> (used for squashing)
git resethard	Discard all local changes and reset to last commit

Maintenance	
git revert commit	Creates a new commit out of an old commit (turn back in history)
git clean -dfx	Delete all untracked files and directories  ! Dangerous
git clean -dfxn	Dry run - Show which files will be deleted
git gcaggressive prune=now	Reduce file size of repository by pruning
git checkout file	Discard local changes to file
bfg -delete-files file	BFG cleans sensitive data file

Remote Managemen	t
git remote add target repo	Add remote target at address repo
git remote -v	List all remotes
git remote set-url target repo	Changes the address of remote target
git push -f origin commit:master	Forces <i>origin/master</i> branch to be moved to <i>commit</i>
git pull (rebase) target branch	Push existing commit to target/branch
git push <i>target</i> branch	Push branch to target/branch
git push target branch1:branch2	Push local branch1 to target/branch2
git push -u target branch	Push and track <i>target/branch</i> . It sets upstream for default pull / push
git push <i>target</i> delete <i>branch</i>	Deletes target/branch at remote



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## Git Commands Cheat Sheet

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**Submodules** 

recursive.

git submodule update --init --

git submodule status folder

Remote Management (cont)		
git fetch target	Update branch information of target remote	
Note: repo might start with git@ or https. When it starts with git@		

Note: repo might start with git@ or https. When it starts with git@ an SSH key is needed for pull/push operations.

Branch management	
git checkout target	Switch to target branch
git checkout -b feature	Create new branch from current commit
git checkout -b feature master	Create new branch <i>feature</i> from <i>master</i> branch
git branch -a	List all branches
git branch -rmerged master	List remote branches that are merged with <i>master</i>
git merge feature	Merge <i>feature</i> branch into current branch
git mergeno-ff feature -m "message"	Merge <i>feature</i> with a commit (no fast-forward)
git branch -d feature	Delete <i>feature</i> branch (if already merged)
git branch -D feature	Force delete <i>feature</i> branch  ! Dangerous
git branch -f feature commit	Move branch head <i>feature</i> to <i>commit</i> ! Dangerous

## Use

git for-each-ref --sort=committerdate refs/heads/
--format='%(HEAD) %(refname:short) - %(objectname:short) - %(contents:subject) - %(authorname) (%
(committerdate:relative))'
to print summary of each branch, last commit, and other info

Tag management	
git tag -a v1.0.0 -m "messa- ge"	Creates an annotated tag with message
git push targettags	Push local tags to remote target
git tag -d v1.0.0	Delete local tag *v1.0.0"
git push <i>target</i> :refs/tags/-v1.0.0	Delete remote tag target/v1.0.0

## **Semantic Versioning**

git describe --tags --dirty Describe current commit using tags



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Pull all submodules (linked reposi-

Show the status of submodule

under folder