

## Git basics Cheat Sheet

by cmok1996 via cheatography.com/136331/cs/28455/

Create Git Repository		
From	cd proj_dir; git init; git add.;	
existing	git commit -m <message>; git</message>	
directory	remote add origin <url>; git</url>	
	push -u origin <url></url>	
From	mkdir proj_dir; cd proj_dir; git	
other	clone <url>; cd <repo></repo></url>	
repository		

Local changes	
Changed in working directory	git status
Show tracked file changes between index and HEAD	git diff <file></file>
Add changed files / Track changes in working tree	git add file1 file2
Stage all files in directory	git add <di- r/&gt;</di- 
Add all files in current directory to staging area (>2.0)	git add .
Add all files to staging area	git add -A
Add files deleted/modified +not created	git add -u
Add new and modified files only + not deleted	git add ignore removal .
See all changes ready for commit	git diff cached

Local changes (cont)	
Restore staged changes but still track in working tree / Undo git add modified file	git restore <file> / git checkout <file> / git checkout</file></file>
Unstage / Untrack / Undo git add new file	git restore staged <file> / git resetmixed HEAD <file> / git rmcached <file></file></file></file>
Track remove file	git rm <file></file>
Track remove directory (recursively remove files)	git rm <dir></dir> r
Commit	git commit -m "- message"
Change commit message	git commit amend -m "- message"
Remove last n local commit (changes reset in index but still preserved in working tree)	git reset HEAD~n
Soft reset local commits (changes in index are preserved and ready to commit	git resetsoft HEAD~n
Hard reset local commits (changes completely removed in both index and working tree -> mixed reset + restore	git resethard HEAD~n

Local changes (cont)	
Revert both local and remote commits (Creates a new commit to revert changes, ready to be pushed)	git revert <co- d="" mmit_i-=""></co->
Reset changes back to specific branch	git resethard <remot- bran-="" ch="" e=""></remot->
Permanently clear untracked files / Clear working tree	git clean -xdf
History	

History	
Show all commits	git log
Simplified logs	git logpretty=- oneline / git logp- retty=reference
Show file commits	git log <file></file>
Show directory commits	git log <dir></dir>
Show commit stats changes	git logstat
Show commits of branch	git log pit log <remote>  obranch&gt;</remote>
Who changed file (walkthrough of code history)	git blame <file></file>

Branching	
List branches (-a to include remote branches)	git branch
remote branches	-a



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Branching (cont)	
Switch to branch	git checkout <branc-< th=""></branc-<>
(Requires a clean	h_name>
slate to change	
branch)	
Create new branch	git branch < new_b-
	ranch>
Create new branch and	git checkout -b <ne- w branch&gt;</ne- 
checkout to new	W_Dranon/
branch	
Delete local	git branch -d <branc-< th=""></branc-<>
branch	h_name>
Stash tracked	git stash save "mes-
changes	sage"
Show stash list	git stash list
Apply stash to	git checkout <branc-< th=""></branc-<>
another branch	h> ; git stash apply
	<stash_id></stash_id>
Drop stash	git stash drop <stash-< th=""></stash-<>
	_id>
Merge feature_b-	git checkout master;
ranch into master_branch (-	git merge feature
master-feature-H-	
EAD)	
Rebase master-	git checkout feature;
_branch into	git rebase master
feature_branch (-	
master-feature-H-	
EAD)	
Resolving confli-	git mergetool ; git
cts	commit -m "messag- e"
Checkout	git checkout <commi-< th=""></commi-<>
previous commits	t_id>; git checkout -b
(creates a	<new_branch> (if</new_branch>
detached head	want to attach head
state - no branch	and save commits)

Remote	
List remotes	git remote -v
Show tracking information	git remote show <remote></remote>
Add remote	git remote add <remote> <re- po_url&gt;</re- </remote>
Fetch changes from remote repo	git fetch <remot- e&gt;</remot- 
Fetch remote branch changes + Merge into current branch	git pull <remot- e&gt; <remote_b- ranch&gt;</remote_b- </remot- 
Pull rebase (-remote changes-HEAD; to avoid conflicts if local commits are already performed)	git pullrebase <remote>  anch&gt;</remote>
Create local branch to track remote branch	git checkout <remote_bran- ch=""> / git checkouttrack <remote_bran- ch=""></remote_bran-></remote_bran->
Check tracking branches	git branch -vv
Set local branch to track remote branch	git branch -u <remote bran-<br="">ch&gt;</remote>
Set upstream branch using push (local branch to track remote branch)	git push -u <re- mote&gt; <remot- e_branch&gt;</remot- </re- 
Push local commits to upstream remote	git push <remot-< th=""></remot-<>
Push local commits to remote branch with same name	git push <remot- e&gt; HEAD</remot- 

		0 1
remote branch with different remote tracking / Push to someone else's		<remote></remote>
		HEAD:<-
		remote_br-
branch		anch>
Others		
Documen-	git <command/>	help
tation		
Ignore files	Edit .gitignore	
Set	git configglob	al
username	user.name "Joh	nn Doe"
Set email	git configglobal user.email	
address	johndoe@example.com	
Set external	git configglob	al core.e-
text editor	ditor emacs	
Set external	git configglob	al
merge tool	merge.tool ext	/lerge

git config --global diff.e-

xternal extDiff

git push

Remote (cont)

Set external

diff tool

Push local commits to



attached to it)

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