

COMMIT IDENTIFICATION

<branch_name>	Last commit on the branch
HEAD	Current commit (parent for next commit)
HEAD^	parent of HEAD
HEAD~n	n-th level parent of HEAD
HEAD@{n}	HEAD n moves ago (reflog)
SHA1 ID (4-20 characters)	Unique commit identifier
HEAD~0 == HEAD	
HEAD~1 == HEAD^	

ADD CHANGES

commit [-m "commit msg"]	Commit staged changes
commit -a	Add & commit all tracked files
commit --amend	Add changes to last commit
add [file]	Stage file
add -p	Add chunks interactively
diff --staged	Inspect staged changes

UNDO CHANGES

checkout .	Undo uncommitted changes
reset HEAD	Unstage files
reset --soft HEAD^	Undo commit (to stage)
reset --hard HEAD^	Undo commit
revert <commit>	Revert existing commit

BRANCHES

branch -avv	List all branches with refs
branch <name> [<commit>]	Create branch (at <commit>)
checkout -b <branch_name>	Create & checkout new branch
checkout <branch> [file]	Checkout workspace (or file)
branch -m <new_branch_name>	Rename current branch
branch -d -D <branch>	Delete merged/unmerged branch

MERGE

merge <with_branch>	Merge branch (default: fast-forward)
merge <with_branch> --no-ff	Merge branch (no fast-forward)

REBASE

rebase <new_root_commit>	Rebase current branch
rebase -i <start_commit>	Interactive rebase
rebase -i HEAD~n	Interactive rebase (last n commits)

RESET

reset <mode> [<commit>]	Reset current branch to <commit>
reset --soft HEAD^	Undo commit
reset HEAD~n	Undo last n commits
--soft - do not touch working tree/index	
--mixed - resets index	
--hard - resets working tree & index	

BLAME

blame <file> [-L start,stop]	Check who modified file (lines start-stop)
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REMOTES

remote -v	Show all remotes
remote add <name> <url>	Add remote
remote remove <name>	Remove remote

REMOTE BRANCHES

fetch [<remote>]	Get remote changes
pull [<remote>]	Get & merge remote changes
pull --rebase [<remote>] [<branch>]	Get & rebase on remote changes
push [<remote>] [<branch>] [-f]	Push local branch to remote
push -n	Dry-run push
remote prune origin	Clean all old remote branch references

CHERRY-PICK

cherry-pick <commit>	Apply already-existing change
rebase --onto <base> <start^> <end>	Apply set of already-existing changes



STASH

stash	Stash workdir & index
stash list	List stashes
stash pop [--index]	Apply & delete stash
stash apply [--index]	Apply stash
stash pop [stash@{n}]	Apply & delete n-th stash
stash drop [stash@{n}]	Remove n-th or latest stash
stash clear	Remove all stashes
stash branch [<new_branch>]	Create branch from a stash

TAGS

tag	List tags
tag <tagname> [<commit>]	Add lightweight tag
tag -a <tagname> [-m "Tag message"]	Add annotated tag
tag -d <tagname>	Remove tag
push <remote> <tagname>	Push tag
push <remote> --tags	Push with all tags
push <remote> :<tagname>	Remove remote tag

REFLOG

reflog	Show history of HEAD
branch <new_branch_name> <lost_commit>	Recover deleted branch

CLEAN

gc	Manually clean garbage objects
clean -fd	Remove not tracked files and folders

BISECT

bisect start <bad_commit> <good_commit>	Init bisect
bisect run test_script.sh	Run automated binary-search

Error code 125 to skip current branch



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