1   Git CheatSheet   TOOLS

- PDF Link: cheatsheet-git-A4.pdf, Category: tools

- Blog URL: `https://cheatsheet.dennyzhang.com/cheatsheet-git-A4`

- Related posts: Shell CheatSheet, #denny-cheatsheets

File me Issues or star this repo.

1.1   Git Advanced

Name	Comment
Git squash to make history clean	`git rebase -i HEAD~4; git push origin <branch-name> --force`
Find git branch by commit hash	`https://\protect\T1\textdollar\protect\T1\textbraceleftgit_repo_link\protect`
List all remote git branches	`git ls-remote --heads origin`
Git clone repo with another ssh key	ssh-agent bash -c 'ssh-add yourkey; git clone git@github.com:user/project.git'
Git clone to a specific folder	`git clone https://github.com/google/cadvisor.git /go/src/github.com/google/c`
Code Owners	Define individuals or teams that are responsible for code in a repository.

1.2   Git Commit

Name	Comment
Git squash to make history clean	`git rebase -i HEAD~4; git push origin <branch-name> --force`
Git amend	`git commit --amend --no-edit`
Git commit and squash	`git commit --amend --no-edit`, `git push origin <branch-name> --force`
Git add patch	`git add -p`
Git commit	git commit -m 'XXX'
Git add and commit	git ci -m 'XXX'

https://raw.githubusercontent.com/dennyzhang/cheatsheet-git-A4/master/git-concept.png

1.3   Git Undo

Name	Comment
Undo git commit	`git reset --hard HEAD~1`
Undo git pull	`git reset --hard`
Undo git add	`git reset filename.txt`
Undo git merge	`git merge --abort`

1.4   Git log

Name	Comment
git sh1sum	`git log -1 --pretty=format:%h`
Check recent commits	`git log -n 3`
Show change content between tow commits	`git log --pretty=oneline --abbrev-commit 1234...5678`
Check commit by username	`git log origin/master -n 3 --author <denny>`
Check changes for a given file from a given user	`git log origin/master -n 3 --author <denny> <somefile.py>`

1.5   Git Diff

Name	Comment
Compare git diff after commit	`git diff --cached`
Compare two git tags	`git diff ${sha1sum}..${sha2sum}`
Show changed file list	`git diff --name-status`, `git diff --name-status --cached`
Git diff two revision	`git diff ${sha1sum}..${sha2sum}`
Git show file changes	`git diff --name-only ${sha1sum} ${sha2sum}`
Show changeset of the latest commit	`git diff HEAD^`
Show prvious changeset for one file	`git diff HEAD^ default.rb`
Compare two branches in CLI	`git diff <branch_1>..<branch_2>` Make sure you have those branches locally
Compare two revision in GitHub UI	https://github.com/.../.../compare/sha1...sha2
Compare latest 3 commits in GitHub UI	`https://github.com/dennyzhang/cheatsheet-git-a4/compare/HEAD~3...HEAD`

1.6   Git Config

Name	Comment
Show git config	`git config --global/system`
Configure default editor	`export pager=cat`, `git config --global core.editor nano`
Edit git global config	`git config --global --edit`
Alias for git status	`git config --global alias.st status` Link: git aliases
Alias for git checkout	`git config --global alias.co checkout`
Alias for git commit	`git config --global alias.ci commit`
Reset git url	`git config --global url."git@github.com:dennyzhang/myrepo.git:".insteadOf "https://git`
Reference	GitHub: gitignore examples

1.7   Git Branch

Name	Comment
List all remote git branches	`git ls-remote --heads origin`
Delete local branch	`git branch -d <branch_name>`
Delete remote branch	`git push origin --delete <branch_name>`

1.8   Git Tag

Name	Comment
Git list all tags	`git ls-remote --tags`
Git Fetch all tags	`git fetch --tags; git checkout tags/<tag_name>`
Git delete local tag	`git tag -d <tag_name>`
Git delete remote tag	`git push --delete origin <tag_name>`

1.9   Git Submodule

Name	Comment
Git add a repo to current repo	`git submodule add <git_repo_url>`
Update submodule	`git submodule update`

1.10   GitHub

Name	Comment
Github Shortcut	Link: Using keyboard shortcuts
Generate TOC	gh-md-toc
Reference	link: generate link for code block, link: git clone wiki repo

1.11   More Resources

`https://github.com/git-tips/tips`
License: Code is licensed under MIT License.