1 Git CheatSheet Tools

- PDF Link: cheatsheet-git-A4.pdf, Category: tools
- $\bullet \ \operatorname{Blog} \ \operatorname{URL} \colon \texttt{https://cheatsheet.dennyzhang.com/cheatsheet-git-A4}$
- Related posts: Visual Studio CheatSheet

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### 1.1 Git Advanced

Name	Comment
Git squash to make history clean	git rebase -i HEAD~4; git push origin <branch-name>force</branch-name>
Find git branch by commit hash	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:
List all remote git branches	git ls-remoteheads 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/cadvisor.git /go/src/github.com/google/cadvisor.github.com/goog
Code Owners	Define individuals or teams that are responsible for code in a repository.

#### 1.2 Git Remote

Name	Comment	
Git add a remote source	git remote add upstream git@github.com:thoughtbot/dotfiles.git	
Git add a local folder as remote	<pre>git init ., git remote add bak /tmp/test_git_folder</pre>	

## 1.3 Git Commit

Name	Comment
Git squash to make history clean	git rebase -i HEAD~4; git push origin <branch-name>force</branch-name>
Git amend	git commitamendno-edit
Git commit and squash	git commitamendno-edit, git push origin <branch-name>force</branch-name>
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

## 1.4 Git Undo

Name	Comment
Undo git commit	git resethard HEAD~1
Undo git pull	git resethard
Undo git add	git reset filename.txt
Undo git merge	git mergeabort

## 1.5 Git log

Name	Comment
git sh1sum	git log -1pretty=format:%h
Check recent commits	git log -n 3
Show change content between tow commits	git logpretty=onelineabbrev-commit 12345678
Check commit by username	git log origin/master -n 3author <denny></denny>
Check changes for a given file from a given user	git log origin/master -n 3author <denny> <somefile.py></somefile.py></denny>

Updated: June 7, 2020

## 1.6 Git Diff

Name	Comment
Compare git diff after commit	git diffcached
Compare two git tags	git diff \${sha1sum}\${sha2sum}
Show changed file list	git diffname-status, git diffname-statuscached
Git diff two revision	<pre>git diff \${sha1sum}\${sha2sum}</pre>
Git show file changes	git diffname-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</branch_2></branch_1>
Compare two revision in GitHub UI	https://github.com///compare/sha1sha2
Compare latest 3 commits in GitHub UI	https://github.com/dennyzhang/cheatsheet-git-a4/compare/HEAD~3HEAD

# 1.7 Git Config

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

## 1.8 Git Branch

Name	Comment
List all remote git branches	git ls-remoteheads origin
Delete local branch	git branch -d <branch_name></branch_name>
Delete remote branch	git push origindelete <branch_name></branch_name>

# 1.9 Git Tag

Name	Comment
Git list all tags	git ls-remotetags
Git Fetch all tags	<pre>git fetchtags; git checkout tags/<tag_name></tag_name></pre>
Git delete local tag	git tag -d <tag_name></tag_name>
Git delete remote tag	git pushdelete origin <tag_name></tag_name>

## 1.10 Git Submodule

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

#### 1.11 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

### 1.12 More Resources

https://github.com/git-tips/tips

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Updated: June 7, 2020