

Git Cheat Sheet

GIT BASICS

<code>git init</code> <code><directory></code>	在指定的目录下创建一个空的git repo。不带参数将在当前目录下创建一个git repo。	Create empty Git repo in specified directory. Run with no arguments to initialize the current directory as a git repository.
<code>git clone <repo></code>	克隆一个指定repo到本地。指定的repo可以是本地文件系统或者由HTTP或SSH指定的远程路径。	Clone repo located at <repo> onto local machine. Original repo can be located on the local filesystem or on a remote machine via HTTP or SSH.
<code>git config</code> <code>user.name <name></code>	针对当前repo配置用户名。使用--global参数将配置全局用户名。	Define author name to be used for all commits in current repo. Devs commonly use --global flag to set config options for current user.
<code>git add</code> <code><directory></code>	将指定目录的所有修改加入到下一次commit中。把<directory>替换成<file>将添加指定文件的修改。	Stage all changes in <directory> for the next commit. Replace <directory> with a <file> to change a specific file.
<code>git commit -m</code> <code>"<message>"</code>	提交暂存区的修改，使用指定的<message>作为提交信息，而不是打开文本编辑器输入提交信息。	Commit the staged snapshot, but instead of launching a text editor, use <message> as the commit message.
<code>git status</code>	显示哪些文件已被staged、未被staged以及未跟踪(untracked)。	List which files are staged, unstaged, and untracked.
<code>git log</code>	以缺省格式显示全部commit历史。更多自定义参数请参考后续部分。	Display the entire commit history using the default format. For customization see additional options.

GIT DIFF

<code>git diff</code>	比较工作区和暂存区的修改。	Show unstaged changes between your index and working directory.
<code>git diff HEAD</code>	比较工作区和上一次commit后的修改。	Show difference between working directory and last commit.
<code>git diff --cached</code>	比较暂存区和上一次commit后的修改。	Show difference between staged changes and last commit

UNDOING CHANGES

<code>git revert</code> <code><commit></code>	对指定<commit>创建一个undo的commit，并应用到当前分支。	Create new commit that undoes all of the changes made in <commit>, then apply it to the current branch.
<code>git reset <file></code>	将<file>从暂存区移除，但保持工作区不变。此操作不会修改工作区的任何文件。	Remove <file> from the staging area, but leave the working directory unchanged. This unstages a file without overwriting any changes.

REWRITING GIT HISTORY

<code>git commit -m</code> <code><message> --amend</code>	将当前staged修改合并到最近一次的commit中。	Replace the last commit with the staged changes and last commit combined.
<code>git rebase <base></code>	基于<base>对当前分支进行rebase。<base>可以是commit、分支名称、tag或相对于HEAD的commit。	Rebase the current branch onto <base>. <base> can be a commit ID, branch name, a tag, or a relative reference to HEAD.
<code>git reflog</code>	显示本地repo的所有commit日志。	Show a log of changes to the local repository's HEAD.

GIT BRANCHES

<code>git branch</code>	显示本地repo的所有分支。	List all of the branches in your repo.
<code>git switch -c</code> <code><branch></code>	创建并切换到一个新的名为<branch>的分支。去掉-c参数将切换到一个已有分支。	Create and switch to a new branch named <branch>. Drop the -c flag to switch to an existing branch.
<code>git merge</code> <code><branch></code>	将指定<branch>分支合并到当前分支。	Merge <branch> into the current branch.

REMOTE REPOSITORIES

<code>git remote add</code> <code><name> <url></code>	添加一个新的远程连接。添加后可使用<name>作为指定<url>远程连接的名称。	Create a new connection to a remote repo. After adding a remote, you can use <name> as a shortcut for <url> in other commands.
<code>git fetch</code> <code><remote> <branch></code>	从指定<remote>抓取指定<branch>的所有commit到本地repo。去掉<branch>将抓取远程所有分支的修改。	Fetches a specific <branch>, from the repo. Leave off <branch> to fetch all remote refs.
<code>git pull <remote></code>	从指定<remote>抓取所有分支的commit并立刻合并到本地repo。	Fetch the specified remote's copy of current branch and immediately merge it into the local copy.
<code>git push <remote></code> <code><branch></code>	将本地指定<branch>推送到指定远程<remote>。如果远程没有对应的分支，将自动在远程创建此分支。	Push the branch to <remote>, along with necessary commits and objects. Creates named branch in the remote repo if it doesn't exist.