GitHubGIT CHEAT SHEET

Git is the free and open source distributed version control system that's responsible for everything GitHub related that happens locally on your computer. This cheat sheet features the most important and commonly used Git commands for easy reference.

INSTALLATION & GUIS

With platform specific installers for Git, GitHub also provides the ease of staying up-to-date with the latest releases of the command line tool while providing a graphical user interface for day-to-day interaction, review, and repository synchronization.

GitHub for Windows

https://windows.github.com

GitHub for Mac

https://mac.github.com

For Linux and Solaris platforms, the latest release is available on the official Git web site.

Git for All Platforms

http://git-scm.com

SETUP

Configuring user information used across all local repositories

git config --global user.name "[firstname lastname]"

set a name that is identifiable for credit when review version history

git config --global user.email "[valid-email]"

set an email address that will be associated with each history marker

git config --global color.ui auto

set automatic command line coloring for Git for easy reviewing

SETUP & INIT

Configuring user information, initializing and cloning repositories

git init

initialize an existing directory as a Git repository

git clone [url]

retrieve an entire repository from a hosted location via URL

git clone [url] --branch [branch]

clone a branch of repository

STAGE & SNAPSHOT

Working with snapshots and the Git staging area

git status

show modified files in working directory, staged for your next commit

git add [file]

add a file as it looks now to your next commit (stage)

git reset [file]

unstage a file while retaining the changes in working directory

git diff

diff of what is changed but not staged

git diff --staged

diff of what is staged but not yet committed

git commit -m "[descriptive message]"

commit your staged content as a new commit snapshot

BRANCH & MERGE

Isolating work in branches, changing context, and integrating changes

git branch

list your branches. a * will appear next to the currently active branch

git branch [branch-name]

create a new branch at the current commit

git checkout [branch]

git checkout -b [branch-name]

create & switch to branch

switch to another branch git merge [branch]



merge the specified branch's history into the current one

git log

show all commits in the current branch's history

git branch -d [branch]

delete a branch



INSPECT & COMPARE

Examining logs, diffs and object information

git log

show the commit history for the currently active branch

git log branchB..branchA

show the commits on branchA that are not on branchB

git log --follow [file]

show the commits that changed file, even across renames

git diff branchB...branchA

show the diff of what is in branchA that is not in branchB

git show [SHA]

show any object in Git in human-readable format

git show [commit id] → Changes of given commit

TRACKING PATH CHANGES

Versioning file removes and path changes

git rm [file]

delete the file from project and stage the removal for commit

git mv [existing-path] [new-path]

change an existing file path and stage the move

git log --stat -M

show all commit logs with indication of any paths that moved

IGNORING PATTERNS

Preventing unintentional staging or committing of files

logs/ *.notes pattern*/

Save a file with desired patterns as .gitignore with either direct string matches or wildcard globs.

git config --global core.excludesfile [file]

system wide ignore pattern for all local repositories

SHARE & UPDATE

show all remote git remote → show all remotes git remote -v with url

git remote add [alias] [url]

add a git URL as an alias

git fetch [alias]

fetch down all the branches from that Git remote

git merge [alias]/[branch]

merge a remote branch into your current branch to bring it up to date

git push [alias] [branch]

Transmit local branch commits to the remote repository branch

git pull (it's done for 'current alias' and 'current branch')

fetch and merge any commits from the tracking remote branch

git pull [alias] [branch] → above action for given branch

REWRITE HISTORY

Rewriting branches, updating commits and clearing history

git rebase [branch]

apply any commits of current branch ahead of specified one

git reset --hard [commit]

clear staging area, rewrite working tree from specified commit

TEMPORARY COMMITS

Temporarily store modified, tracked files in order to change branches

git stash git stash show [stash id]

show stash changes

Save modified and staged changes git stash list git stash

list stack-order of stashed file changes clear stash list

git stash pop [stashid] git stash apply [stash id] apply stash with deleting apply stash without deleting

git stash drop

discard the changes from top of stash stack

git tag

all tags list

git tag [name]

create a tag with name (like v1.0.0) and message is last commit

[name] git tag -a [name] -m "Message"

create a tag with name (like v1.0.0) and message

git push -u [remote] [branch] [tag name]

push a tag

git push -u [remote] [branch] --tags

push all tags

قبل از سوییچ حتما یه

git status

بزن باید کلین باشه

اگه نبود برای کامیت دستور

git add.

git commit -m "Message"

بزن تا تغییرات در برنچ فعلی ذخیره بشه سپس بری به یه برنچ دیگه

نکته : اگه کارت تکمیل نشده که کامیت کنی ولی میخای سوییچ کنی به یه برنچ دیگه میتونی

git add.

git stash

بزنی تا تغییرات رو ذخیره کنه سپس سوییچ کنی و وقتی خواستی تغییرات رو برگردونی ابتدا با

git stash list

میتونی لیست فایل های ذخیره شده به همراه اسم استش رو ببینی

و با دستور

git stash show *

و بجای ستاره عبارت پشت دونقطه میتونی جزئیات استش ذخیره شده رو ببینی

و با دستور

git stash apply *

git stash pop *

استش ذخیره شده رو برگردونی اپلای فقط استش ذخیره شده رو اعمال میکنه و استش رو نگه میداره ولی پاپ علاوه بر اعمال اون استش رو حذف میکنه

نكته: دستور

git stash clear

لیست استش هارو پاک میکنه

این دستور خودش تغییرات رو ذخیره میکنه و نیاز به "git add . & git commit -m "Message" نبست

نکته : اگر برای مرج کردن ادیتوری باز شد و کامنت خواست با انتخاب

esc+:i

میتونی اینسرت کنی کامنتت رو و سیس با انتخاب

esc+:wq

میتونی ذخیرش کنی

اديتوره اكثرا

vim

ھست

نکته: اگر زمان مرج کردن

CONFLICT

رخ داد یعنی تداخل داشته و قسمتی که تداخل داشته رو نوشته داخل کد هم متمایز کرده برو به قسمتی که گفته تداخل داشته و دستی چیزی که میخای باشه رو درست کن سپس سیو کن و بیا به گیت و دستورات

git add.

git commit -m "fix-conflict"

رو بزن