GitHub GIT 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

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

switch to another branch and check it out into your working directory

git merge [branch]

merge the specified branch's history into the current one

git log

show all commits in the current branch's history

()

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

SHARE & UPDATE

Retrieving updates from another repository and updating local repos

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

fetch and merge any commits from the tracking remote branch

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

show all commit logs with indication of any paths that moved

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

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

TEMPORARY COMMITS

Temporarily store modified, tracked files in order to change branches

git stash

Save modified and staged changes

git stash list

list stack-order of stashed file changes

git stash pop

write working from top of stash stack

git stash drop

discard the changes from top of stash stack

GitHub Education

Teach and learn better, together. GitHub is free for students and teachers. Discounts available for other educational uses.

■ education@github.com

യ education.github.com



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git init
git status
git add filename
git rm --cached filename
(.gitignore)
git add *
git commit -m "meesage"(status right now)
git diff
git restore --staged filename
DIREKT: git commit -a -m "message"
git log
git log -oneline
git log -p
git reset -lognummer
git rebase (änder/komprimeiren log bzw commits)
  CREATE NEW BRANCH
  git branch (zeigen wieviele brnaches isch habe)
  git branch branchname (neuer branch)
  git switch branchname (wechelse der aktiven branch)
```

\$ git config -1 mother@DEVSTAR MING \$ git help config