Git Cheat Sheet

Prepare environment

Use global config

\$ git config --global <key> <value>

Deal with CR/LF issues (Windows)

\$ git config core.autocrlf true

\$ git config user.name <name>

Set email (in case of SSH issues)

\$ git config user.email <email>

Set alias

\$ git config alias.<alias> <cmd>

Common aliases

st status

br branch

ci commit

co checkout

Create a repository

Create new local repository

\$ git init project_name>

Download from an existing repository

\$ git clone <my_url>

Observe your repository

List new or modified files

\$ git status

Show the changes to files not yet staged / staged

\$ git diff [--cached]

Show all changes

\$ git diff HEAD

Show the changes between two commits

\$ git diff <commit_id1> <commit_id2>

List che change dates and authors to a file

\$ git blame <file>

Show the file changes for a commit id and/or file

\$ git show <commit>:<file>

Show full change history

\$ git log

Show change history for a file/directory including diffs

\$ git log -p <file/directory>

Show modify/delete conflict – deleted by me

\$ qit diff ...oriqin/master - <file> Unstage file, keeping the file changes

Show modify/delete conflict – deleted by them

\$ git diff origin/master... - <file> Revert everything to the last commit

Working with branches

List all local (local and remote) branches

\$ git branch [-av]

Switch to a different branch

\$ git checkout <branch name>

Switch to a new branch

\$ git checkout -b <branch name>

Create a new branch

\$ git branch <branch_name>

Delete a branch

\$ git branch -d <branch_name>

Delete a remote branch

\$ git push <origin> --delete <branch name>

Merge a branch into the current branch

\$ git merge <branch_name>

Merge a branch into the current branch without using fast-forward

\$ git merge --no-ff <branch_name>

Tag the current branch

\$ git tag <tag>

Make a change

Stage a file, ready for commit

\$ git add <file>

Add all files

\$ git add --all

Commit all staged (tracked) files

\$ git commit [-a] -m "commit message"

develop

release

branches

Change last commit

\$ git commit --amend

\$ git reset <file>

feature

branches

From this point on,

means the release

after 1.0

\$ git reset --hard

for future

Synchronize

Get the latest changes without merge (all branches)

\$ git fetch [--all]

Fetch the latest changes and merge

\$ git pull

hotfixes

Severe bug

fixed for

production

hotfix 0.2

Start of

branch for

Buafixes from rel. branch

may be

source: http://nvie.com/posts/a-successful-git-branching-model/

Fetch the latest changes and rebase

\$ git pull --rebase

master

Push local changes (and set upstream for later use)

0.1

\$ git push [-u <upstream> <branch>]

Stash

Save local changes into

\$ git stash

Apply changes from stash \$ git stash apply

Save local changes as a new

\$ git stash save

List all the stashes

\$ git stash list

Clears all the stashes

\$ git stash clear

Repair

Untrack all the local uncommited files

\$ git rm --cached -r .

