



Git Cheat-sheet

Git commands and workflow in short

git add

Add changes to the staging area

- git add <file>
- git add <file1> <file2>
- git add .

git commit

Commit staged changes

- git commit -m "message"
- git commit -am "message"

git status

Compares latest commit with current changes

- git status

git log

Shows the commit log

- git log
- git log --oneline

git branch

Shows all the branches of the repository

- git branch
- git branch -a
- git branch -M <new_bname>
- git branch -D <branch>
- git branch -r

git switch

Changes the current working branch

- git switch <branch>
- git switch -c <branch>

git merge

Merges current branch with a specified branch

- git merge <branch>
- git merge --abort

git stash

Save changes that you are not ready to commit in the stashing area

- git stash
- git stash pop
- git stash apply
- git stash list
- Git stash clear
- Git stash drop 'stash@{i}'

git
checkout

Checkout something.
(branches, commits,
...)

- git checkout <chash>
- git checkout <branch>
- git checkout HEAD

git restore

Undo changes in our
local repository since
our last commit

- git restore <file>
- git restore --source HEAD <file>
- git restore --staged <file>

When we collaborate with other people we use **revert**!

git reset

Mover the branch
pointer in a past
commit. Reseting
changes.

- git reset <chash>
- git reset --hard <chash>
- git restore --staged <file>

git revert

Creates a new commit
which reverses the
changes until the
specified commit.

- git revert <chash>

git restore

Undo changes in our
local repository since
our last commit

- git restore <file>
- git restore --source HEAD <file>
- git restore --staged <file>

git clone

Clones a remote
repository to your
local machine.

- git clone <url>

git remote

Add a remote
repository reference.

- git remote -v
- git remote add <name> <url>

git push

Push commits from
the local repo to the
corresponding
remote

- git push <remote> <branch>
- git push -u <remote> <branch>
- git push

git fetch

Updates the remote tracking branch.

- git fetch
- git fetch <remote> <branch>

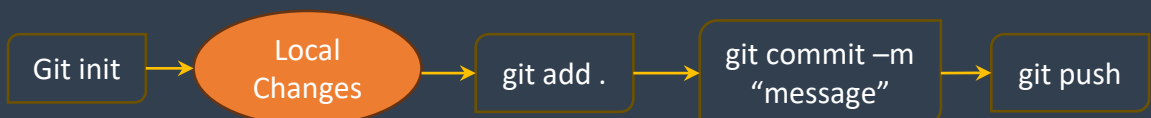
git pull

Does fetch + merge.
Updates HEAD branch from the remote.
Applies the changes if it can automatically be merged.

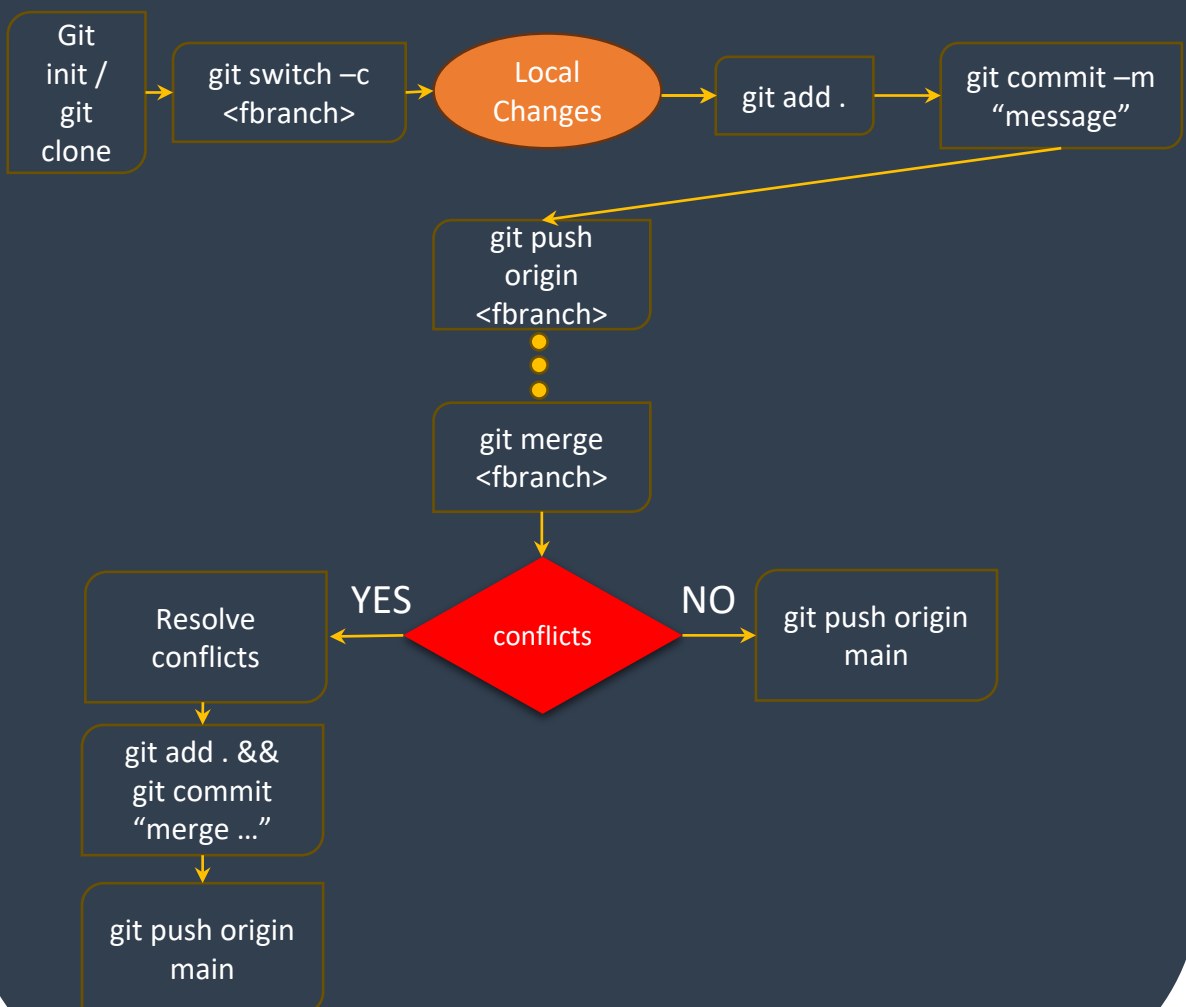
- git pull
- git pull <remote> <branch>

Basic workflows

Centralized workflow (only a main branch)

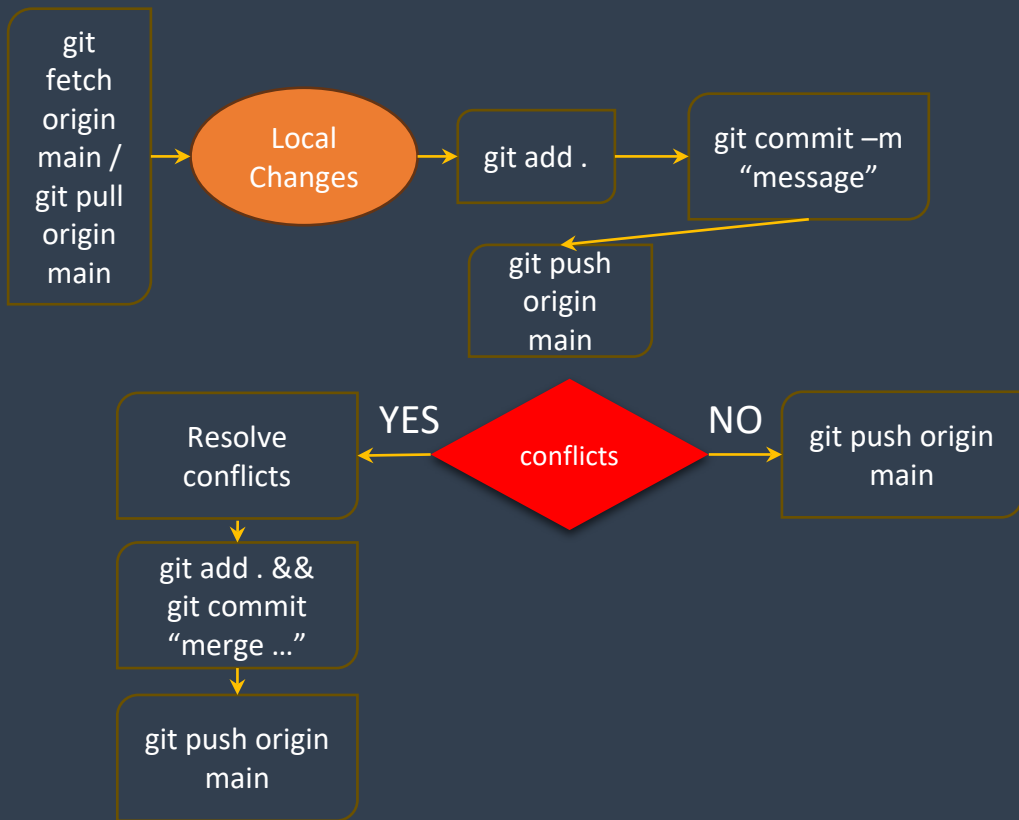


Feature-branch workflow (new functionality always on a new branch, main branch -> stable)

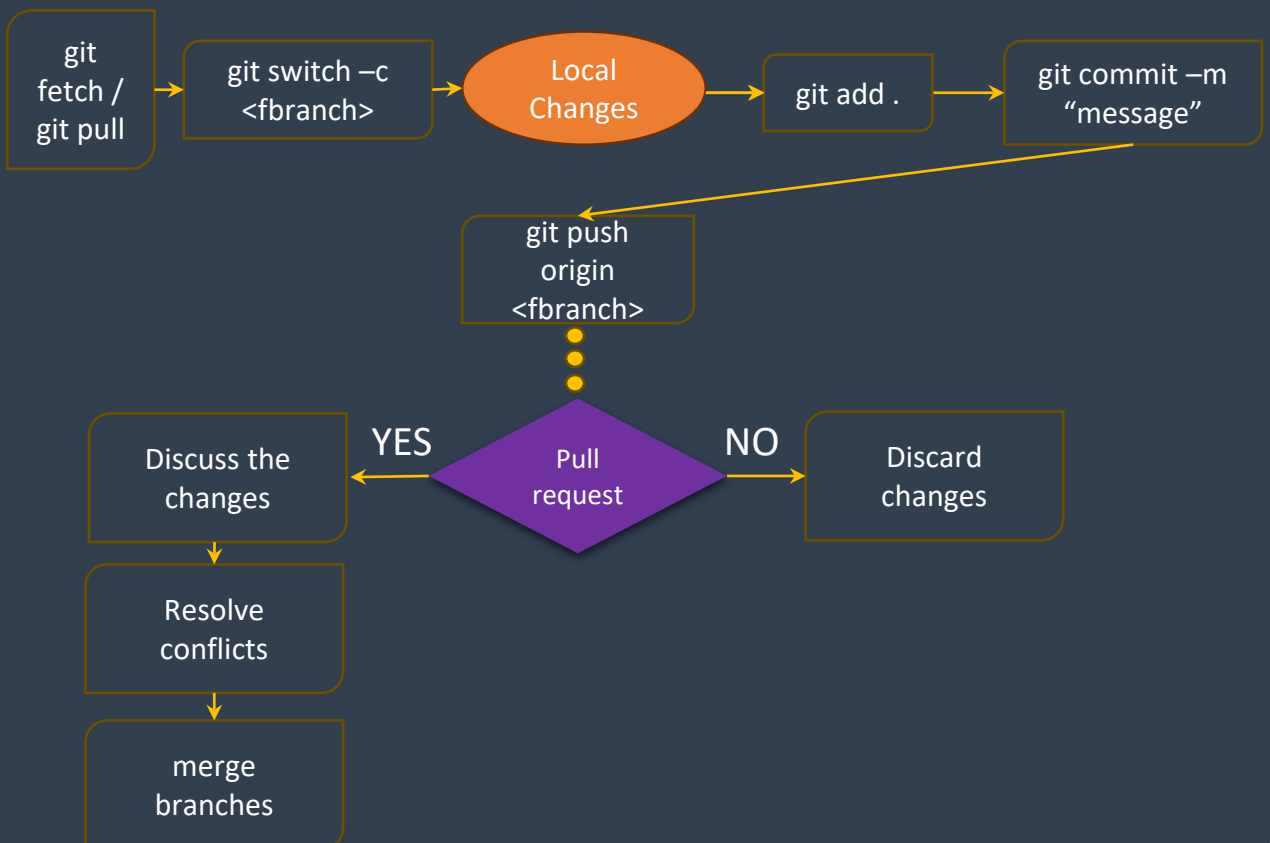


Colaborative workflows

Centralized workflow (only a main branch)



Feature-branch workflow (new functionality always on a new branch, main branch -> stable)



Fork & Clone Workflow (each work on a fork)

