

## COMMON COMMIT

> git commit -m "Message..."

## DETAILED COMMIT

> git commit → opens the default editor (VS Code here)

Edit COMMIT\_EDITMSG



on the file

COMMIT\_EDITMSG

First line gets the short description.



~~Second~~ line gets the long description.



Save



Close editor



Back in terminal



Basic statistics are shown & committed!

## TO KNOW WHAT IS IN THE

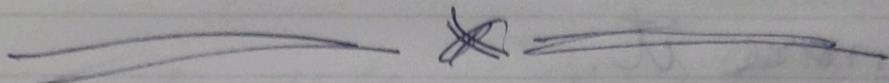
### STAGING AREA

> git status → general view

> git ls-files → shows only the staging area.

TO REMOVE A FILE  
 FROM BOTH WORKING DIRECTORY  
 AND THE STAGING AREA

> git rm file.txt



MOVING AND RENAMING FILES

> mv file1.txt main.js → generates  
 two changes  
 for git

> git status → 1 deleted (file1.txt)  
 1 new (main.js)  
 untracked.

> git add file1.txt → stages the deletion.

> git add main.js → stages the "new" file.

> git status → will indicate "renamed!"

ALL THESE IN ONE STEP

> git mv main.js file1.txt → renames  
 and stages.

> git status → renamed!

> git commit -m "Names changed."

## • GITIGNORE

- > mkdir logs
- > echo hello > logs/dev.log
- > git status → shows new untracked files/ directory.

Let's ignore it.

- > echo logs/ > .gitignore
- > code .gitignore → opens it for edition.
- > echo main.log >> .gitignore
- > echo \*.log >> .gitignore
- > git status → shows only the new file .gitignore, because now it is ignoring the /logs/ directory.
- > git add .gitignore
- > git commit -m "Add .gitignore"

# IGNORING FILES

THAT WERE ALREADY

COMMITTED.

- > mkdir bin → supposedly the directory with my compiled code.
- > echo hello > bin/app.bin → just to have a file there
- > git status → shows we have this new untracked directory.
- > git add . → adding all the changes to the staging area.
- > git commit -m "accidental add bin".
- = Now we have a problem =

- > code .gitignore = or =
- > echo bin/ >> .gitignore
- > git status → shows we have modified the .gitignore
- > git add .
- > git commit -m "Include bin/ in .gitignore!"

# 1 file changed

# 2 insertions

git is not ignoring the bin/ directory because it is already tracking it.

= Let's modify our bin file =

> echo \$@ > bin/app.bin

> git status → git says that the app.bin file is modified  
this is not what we want.

— To solve this problem

We have to remove this

file from the staging area =

> git ls-files → shows files in the staging area  
and bin/app.bin is there.

> git rm -h → shows help for git rm

> git rm --cached bin/ → removes bin/ only

> git rm --cached -r bin/ from the staging area but not

↳ removes /bin from staging area only and will fail.  
recursively. So that one will work.

> git ls-files → shows the staging area without the /bin/app.bin file.

> git status → one change ready  
to be committed:  
deleted: bin/app.bin

> git commit -m "Remove the bin  
directory that was  
accidentally committed."

= From now on git is not  
going to track this directory  
anymore =

> echo test > bin/app.bin

> git status → nothing on staging  
area, nothing to  
commit, working  
tree clean.

## GITIGNORE TEMPLATES

<https://github.com/github/gitignore>

## SHORT STATUS OUTPUT

= More comprehensive =

> git status → verbose

> git status -s → short but yet more

		file-1.txt	file 0.txt	file 1.txt	file 2.txt	file 3.txt
STAGING	M					
WORKING	M					
DIG	MM					
	A					
	??					

explanatory

- modified, not staged
- modified and staged
- remodified and not yet restaged
- new file and staged
- New file not staged

=COMPARE REPO TO STAGING AREA =

> git diff --staged

=COMPARE W. DIR TO STAGING AREA =

> git diff

= VISUAL DIFF TOOLS =

- ✓ KDIFF3
- ✓ P4MERGE
- ✓ WINMERGE (Windows only)
- ✓ VS CODE

= TO SET VS CODE AS THE DEFAULT VISUAL DIFF TOOL =

> git config --global diff.tool vscode

= TELLING GIT HOW TO LAUNCH VS CODE =

> git config --global difftool.vscode.cmd "code --wait --diff \$LOCAL \$REMOTE"

# In ~~this~~ .gitconfig file 2 lines must exist like this (exactly):

[difftool "vscode"]

cmd = "code --wait --diff \$LOCAL \$REMOTE"

Remember that the command  
to open the gitconfig file in VSCode is:

> git config --global -e

= TO LAUNCH THE VISUAL DIFFTOOL =

> git difftool

> git difftool --staged

== VIEWING THE HISTORY ==

> git log → long descriptive history.  
"space" for next page  
"Q" to quit

> git log --oneline → a short summary of  
the commits.

> git log --oneline --reverse → the same  
but in reverse  
order.

= TO UNDO THE STAGING  
OF A FILE OR DIRECTORY =

> git restore --staged file1.txt  
} \*.py

~~This takes the file, i.e. from the  
last snapshot committed and puts it in  
the Staging area~~

= LINK LOCAL TO REMOTE REPO =  
> git remote add origin Klinky 16

= TO GET ALL FILES  
FROM main BRANCH  
IN THE REMOTE REPOSITORY  
TO THE LOCAL REPOSITORY =

> git pull origin main  
                  master  
                  develop  
= TO SEND THE LAST  
COMMIT TO THE REMOTE  
REPOSITORY (TO THE main BRANCH) .

FROM THE LOCAL REPOSITORY =

> git push -u origin main  
                  master  
                  develop

= CRIAR UMA NOVA BRANCH =

> git branch novabranch

= COMECAR A TRABALHAR NA  
NOVA BRANCH =

> git checkout novabranch

= ADD THE NEW  
BRANCH TO THE REMOTE  
REPOSITORY =

- > # make changes, do things #
- > git add <files>
- > git commit -m "message"
- > git push -u origin novabranch