GITHUB

<https://www.youtube.com/playlist?list=PLDyvV36pndZHkDRik6kKF6gSb0N0W995h>

For example, we have some project on github. First what we do – we FORK it to our own account, and then pull it to our local machine. In this case, those three points will be called:

UPSTREAM – those project from what we forked

ORIGIN – forked project what is already in our account

LOCAL – pulled repo from ORIGIN on our local machine

We can change default editor by using command:

Git config –global core.editor “code --wait” – in this case we set a Visual Studio Code editor as default and current.

In editor when every commit creates it is good to describe any changes what had been done with the current project.

To take a look what repo is origin we an use command:

Git remote -v

In other words, git push – it is the same as – git push origin

BUT! If we type – git pull (as you can see now, same as git pull origin), we will pool changes from our ORIGIN repo(which was forked), but we need to pull from those repo what is not ours. So, we need to set it up someway. In this case we can use command such as:

Git remote add upstream <https://github.com/notOurProject> - we SET the repo from what we will pull the changes to our local repo

To make pull procedure after that we need to use command:

Git pull upstream master – NB! Master – this is a name of our branch in local repo, where we need to apply the changes

After this there a new commit will be happened, as merging commit (Комммит слияния)

To view configuration file:

Cat .git/config

Three types of settings in git:

--system, --global, --local(default)

Settings write to <project>/.git/config

Git standards article – XDG base Directory Specification

**--global:**

~/.gitconfig

C:\Users\Username\.gitconfig

OR

$DG\_CONFIG\_HOME/git/config

(if not set)~/.config/git/config

**--system**

/etc/gitconfig

C:\ProgramData\Git\config – installing settings

Firstly git searching in local, then in global, then in system

To see parameters from all configs we can use command:

Git config –-list

To see all options of any command we can use flag -h

Quit from VIM:

:q

:q! – quit without saving

To create an alias for ‘config –-global’ command we can use command:

Git config –global alias.c ‘config -–global’

If in file from first 8000 bytes there are at least one 0 symbol, then file is binary. If not – text one.

String settings saved in **.gitattributes** file.

**GIT IGNORING:**

All files includes in .gitignore will be ignored

**\*.log** – ignoring all files with .log extensions

**Build/** - ignoring folder with name “build” (/ - for directories)

**/build/** - / at the beginning means – search from the root of the project – so in this case those “build” directory will be ignored what lies at the root, but other directories named “build” what lies in other places will not be ignored.

**/www\*/** - ignoring all folders in root which names starts from “www” letters

**\*\*/app/cache** – ignoring all folders app/cache no matters where it locates

**!install/packages.html** – ignore all except install/packages.html

**IMPORTANT!**

**/install/** - ignoring all folder install, just stopping work with it

**/install/\*** - ignoring all inside install folder, but not folder itself

COMMITING DATA (COMMIT EARLY-COMMIT OFTEN)

There are some details in after-commit message. For example, after each commit there are one record appears, such as:

**Create mode 100644 filename.ext**

If its executable file – there will be 755 instead of 644

To show commit we can use command:

Git show e2450 – commit number, but not the less then first four symbols

Git show – shows current commit

Git show –-pretty=fuller – shows detailed info and commit

GIT CANNOT WORK WITH EMPTY FOLDERS! In that case we can add to the empty folder a zeero-sized file named **.gitkeep**

To see what files is in catalogue even if they are gitignored we can use command:

Ls -a

If we want to commit and don’t want to use VIM we can do it with nice command:

Git commit -m ‘commit message’

There is a way to perform commit at once, without adding step. This flag doing two operations – git add and git commit – as one operation. Also -a flag ignore files what not tracked by git (for example, newly created files) – but not ignore those files what already are in index. We can use command as:

Git commit -a m ‘commiting skipping git add step’

It also could be realized by commit command and filepath:

Git commit scripts/second.js m ‘secondscript’