**Git, GitHub, Gist: Useful Commands & Vocab**

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| Vocabulary | Name/ Commands | Explanation/ Comments | |
|  |  |  | |
| Git | | | |
| Repository (Repo) | Project | | A bunch of snapshots/ states of what my files look like at a particular time  Location where Git saves all the data, history of changes made to our project file,… |
| Working directory | Project folder on my computer | | Folder location on computer, where the project lives |
| Staging | Control what gets committed | | Befor we are allowed to commit changes we have to stage it (i.e. preparing, getting sth ready) |
| Commit | Git’s way of saving | | We have to actively commit our changes that Git saves it to its history database, 2nd save |
| Push & Pull | Hidden folder? | |  |
| Repo Hosting |  | | Host my Git repository on a server |
| Push & Pull | When working with server | |  |
| Push |  | | PUSH Repo on my computer’s hard drive up to the server |
| Pull |  | | PULL Repo with latest changes on GitHub’s server on my computer |
|  |  | | |
| GitHub | One of many services that can host repositories | | |
| Git |  | | |
| Gist |  | | |

General Stuff:

Command line = place where we can type commands => using Git from the command line is supposed to be the best!

Git stores all of its history data in a hidden folder in the root of the Git repository (hidden system folder, where it stores all the commits & changes, history for our repo) => stores this data locally, on my computer’s hard drive BUT

1- if I loose computer I loose my project/ repository

2- Collaboration is pretty difficult

* Solution = **Repo Hosting**! (i.e. host my Git repository on a server)

Git **is not** GitHub

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| Command | Function/ Examples | Comments |
| Settings Name | git config --global user.name "…" |  |
| Settings email | git config --global user.email "…" |  |
| Initialize Git  Create repo | Navigate to directory  git init |  |
|  |  |  |
| git status | Recap of what I have changed lately | Shows me the files which were modified |
| git add -A | Adds all changes to the staging area  -A: all |  |
| git commit | Commit “staged” changes  e.g. git commit –m “Text…” | Good idea to include a message with my commit |
| git checkout -- . | Restores file stages & files to status when last commit was done |  |
| git log | Inspect all changes which have been made to repo |  |
| git diff | Shows differences between previous vs. changed file |  |
| git checkout |  |  |
| git clone | Clone an existing repo |  |
| git remote -v | shows both the names and URLs of the remote repositories |  |
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