**Git Tutorial**

Basic commands:

* git init //this will initialize the local git repository
* git add <file> //will addd file(s) to index
* git status //will check the status of the working tree
* git commit //commit changes in index
* Remote Repositories commands:
  + git push //push to remote repository
  + git pull //pull the latest changes from a remote repository
  + git clone //will clone a repository into a new directory

For installing GIT:

1. Windows: <http://git-scm.com/download/win>
2. Mac: http://git-scm.com/dowload/mac
3. Linux sudo apt-get install git

With **touch** cmd you create files in the repository

Go to repository you have created and then right click and open git Bash

Then add the files you want either way you want and type **git init**

This initializes git, and then you type **git add <file>** to add it to the git repository and if you want to check the status of your files (which are consistent with git and which not in the local and remote repository) then you enter **git status**

If you want to remove something, **git rm --cached index.html**

**Trick: If you want to add all of the html files for example in git from a repository then you type git add \*.html. To add everything type git add .**

**Git Commit:**

git commit: there you write comments and then type escape press :wq and Enter

If you modify and check status you will see that the status will be insonsistent

git rm --cached index.html to directly add the comment when commiting

**Git Ignore:**

Created a .gitignore file as well as a log file that I won’t probably like to commit so I want it to be ignored

Write in .gitignore the file name you want to ignore, for example log.txt

Works the same with directories

**Branches**

We use branches because you don’t always want to push changes to the repository that will affect other peoples work etc (there may be mistake). By creating a branch you clone the central repository and then you make the changes you want to your branch.

To create a branch type: git branch <name> and to switch: git checkout <name> to go to the other branch

In order to merge the branch you have created with the master branch you need to type:

git merge <name>

**Remote Repository**

git remote add <https://github.com/georgebakas/myAppSample> (to add a remote repository)

then if you want to push what you have from an existing local repository:

git push –u origin master

and this will push everything you have from your local repository to your remote

any change in the local that you want to push: git push

How to clone: Go to the new folder and open GIT bash and type: git clone <https…>

And you will have the entire folder from the remote repository into a new local repository

!! git pull , will get everything that you have on the remote repository and deleting the changes you have probably made by now to your local repository