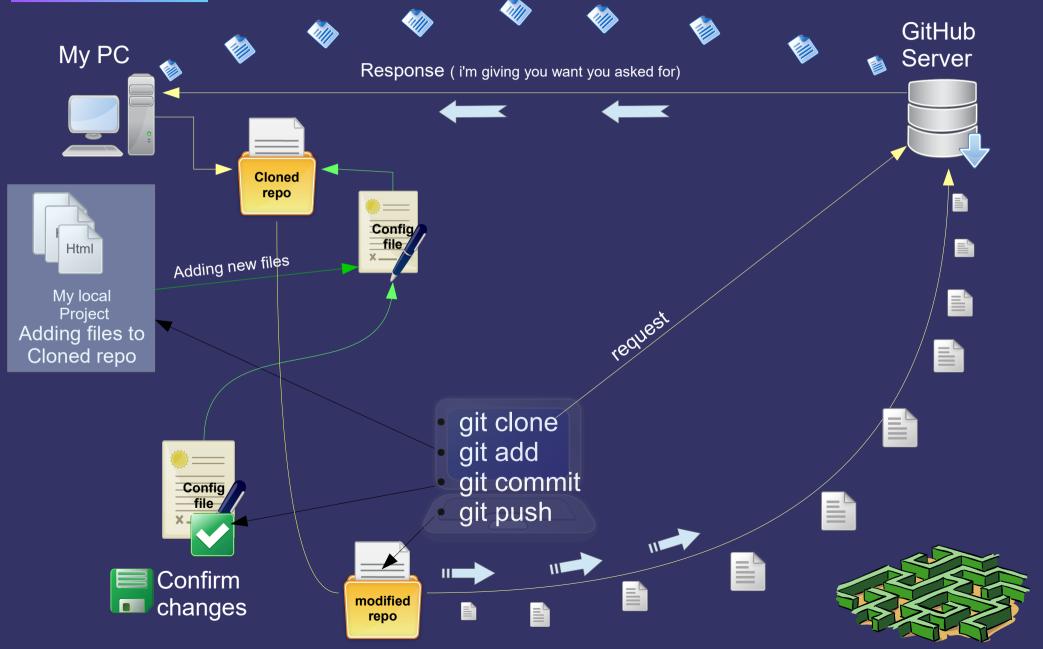


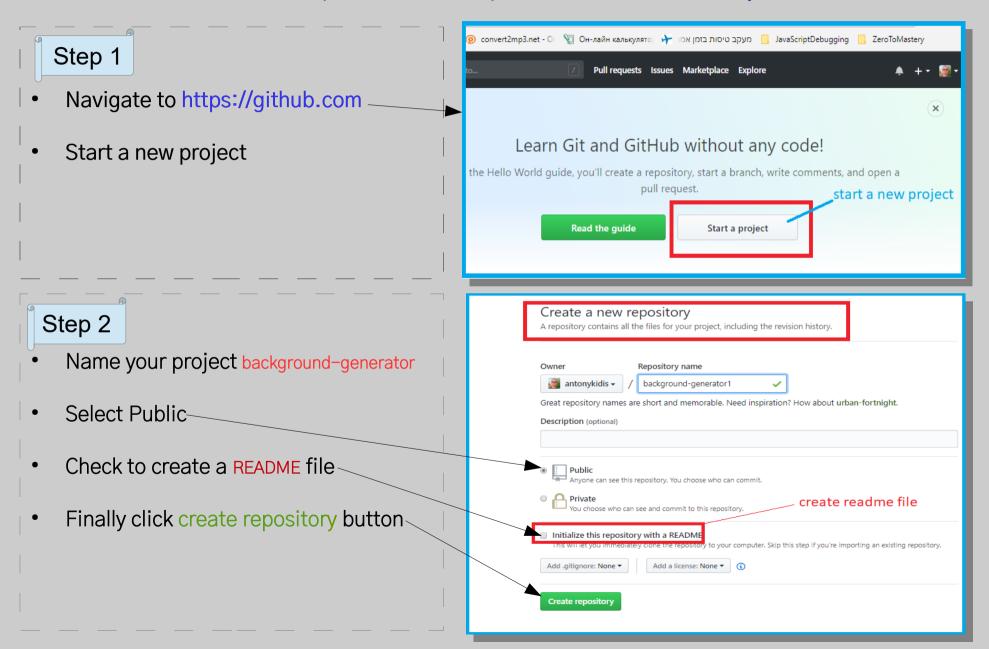
# Road Map The general idea and the flow chart behind this guide



#### Git and GitHub Source Control

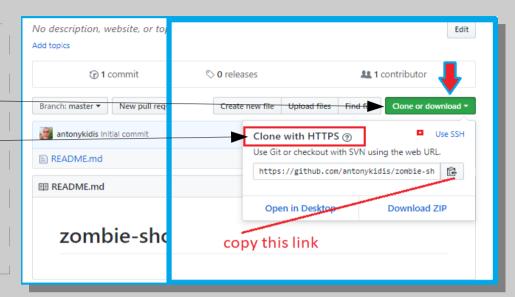
Part1 (Working on a new repository)

The Complete Web Developer in 2018: Zero to Mastery



#### Step 3

- Click Clone or download button
- Select use HTTPS
- Copy the URL to a clipboard by clicking the Little icon



#### Step 4

- Open terminal(bash, or powershell) or other prefered terminal.
- Navigate to a project you currently work on.
- Enter the following commad:
   git clone https://github.com/antonykidis/background-generator.git

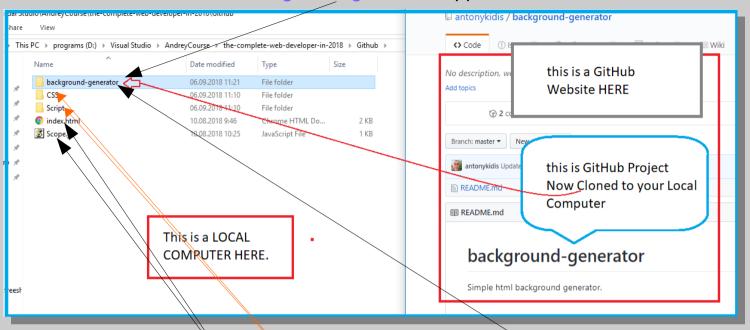
This will clone GitHub's repository to your computer.

Here is the following output
 Unpacking objects 100% (6/6) done.
 The background-generator cloned now to your computer

```
MINGW64:/d/Visual Studio/AndreyCourse/the-complete-web-developer-in...
                    MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-d
cd Github
 ma Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-dev
    index.html Scope.js Script/
 na Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-de
 git clone https://github.com/antonykidis/background-generator.git
loning into 'background-generator'...
emote: Counting objects: 6, done.
mote: Compressing objects: 100% (3/3), done.
mote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
npacking objects: 100% (6/6), done.
ma Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-dev
 oper-in-2018/Github
ackground-generator/ CSS/ index.html Scope.js Script/
 ma_Mironov@Dmitry-M_MINGW64_/d/Visual_Studio/AndreyCourse/the-complete-web
```

#### We've just copied our repo to a local computer.

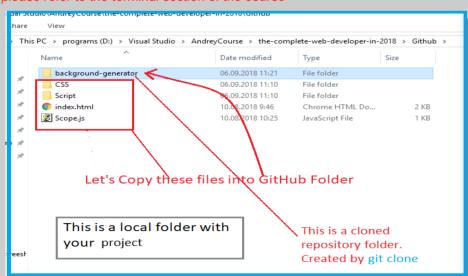
You can see the background-generator appeared in the left window



#### Step 5

Next Step is to take all of our local project's files and folders, and copy them into the background-generator repository folder. You can copy these files using the IDE, or a command line (terminal)

To copy files and folders via command line please refer to the terminal section of the course



Illustration

#### Step 6

 Back to a terminal window and cd (navigate) to a newly created cloned directory named background-generator Example:

cd background-generator

- 2. Then type Is (dir in windows) to list the contents of a background-generator folder.
- 3. You should see the similar output with all the copied files from the previous step.

(master) means that we now working in the repository folder

```
Dima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-completoper-in-2018/Github/background-generator (master)

1s

CSS/ index.html README.md Scope.js Script/

Dima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-completoper-in-2018/Github/background-generator (master)

This folder wil contain the project files plus the readme file
```

#### Step 7

- We now can check the status of our files since we've copied our files into the repository folder(comunication folder)
- While in terminal type git status
- This will invoke the following output

You can see that we have untracked files and folders We can now add these files to a GitHub **Configuration file** before upload it back to GitHub

```
MINGW64:/d/Visual Studio/AndreyCourse/the-complete-web-developer-in...

Dima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-developer-in-2018/Github/background-generator (master)

$ 1s

CSS/ index.html README.md Scope.js Script/

Dima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-developer-in-2018/Github/background-generator (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

Intracked files:

(use "git add <file>..." to include in what will be committed)

CSS/

Scope.js

Script/
index.html

nothing added to commit but untracked files present (use "git add" to track)

Dima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-developer-in-2018/Github/background-generator (master)

$ | V
```



Configuration file. We will explore it in the following sections.

#### Adding files and folders to configuration file

#### Step 8

Let's Add utracked files to a special Configuration file

Type the following commands:

- git add CSS (folder)
- git add Script(folder)
- git add Scope.js(file)
- git add index.html (file)-

To add all files and folders at once type git add .

#### Step 9

- After adding each file, and folder
- 1. Type git status
- 2. You should see the following output
- 3. Okay we've just set the configuration file. Great!
- 4. Next step is to commit these files into the configuration file.

```
MINGW64:/d/Visual Studio/AndreyCourse/the-complete-web-developer-in... 

Dima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-developer-in-2018/Github/background-generator (master)
$ 1s

CSS/ index.html README.md Scope.js Script/

Dima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-developer-in-2018/Github/background-generator (master)
$ git status

Dn branch master
Your branch is up to date with 'origin/master'.

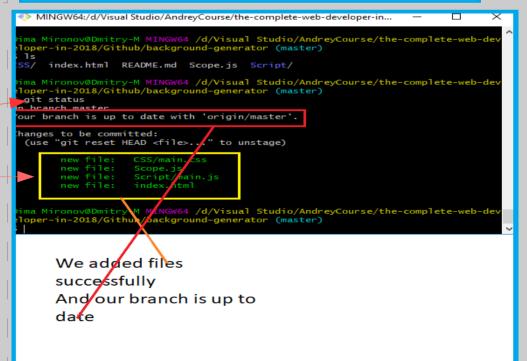
Intracked files:

(use "git add <file>..." to include in what will be committed)

CSS/
Scope.js
Script/
Index.html

nothing added to commit but untracked files present (use "git add" to track)

Dima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-developer-in-2018/Github/background-generator (master)
$ |
```



#### Commit the changes we've made in previous steps

#### Step 10

- Let's commit previously added files and folders.
- Enter the following command
- git commit -m "adding starting project"

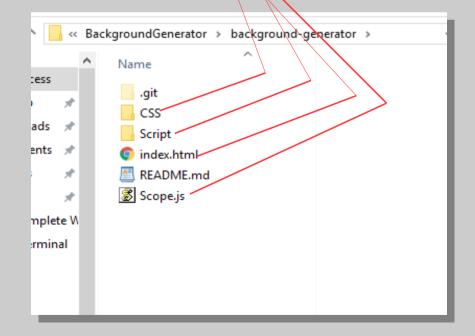
Commit means **Save all** the changes to config.file before pushing it back to the GitHub server

#### We've just set up the configuration file

 The last step is to push these changes back to the GitHubServer. But let's explore the configuration file first.

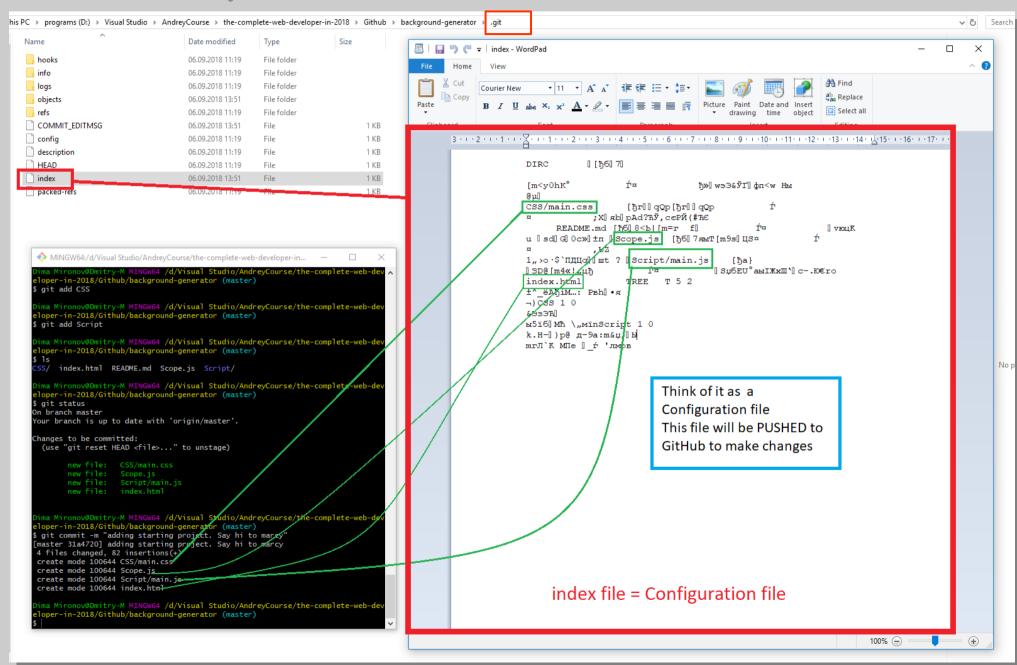
```
ima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-dev loper-in-2018/Github/background-generator (master)
git commit -m "adding starting project. Say hi to marcy"
master 31a4720] adding starting project. Say hi to marcy
4 files changed, 82 insertions(+)
create mode 100644 CSS/main.css
create mode 100644 Scope.js
create mode 100644 Script/main.js
create mode 100644 Script/main.js
create mode 100644 index.html

ima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-dev
loper-in-2018/Github/background-generator (master)
```





# Explore the configuration file



## Push changes to GitHub

#### Step 11

- Finally Push the changes to the server
- Use the following command
- git push
- This will get you to the following output
- We've succesfully wrote objects to http://github.com...

#### Step 12

Go back to https://github.com and check What you've done so far (Test pushed files on GitHub)

```
Dima Mironov@Dmitry-M MINGW64 /d/Visual Studio/AndreyCourse/the-complete-web-developer-in-2018/Github/background-generator (master)

§ git push

=numerating objects: 9, done.

Counting objects: 100% (9/9), done.

Delta compression using up to 12 threads.

Compressing objects: 100% (5/5), done.

Writing objects: 100% (8/8), 1.77 KiB | 1.77 MiB/s, done.

Total 8 (delta 0), reused 0 (delta 0)

To https://github.com/antonykidis/background-generator.git

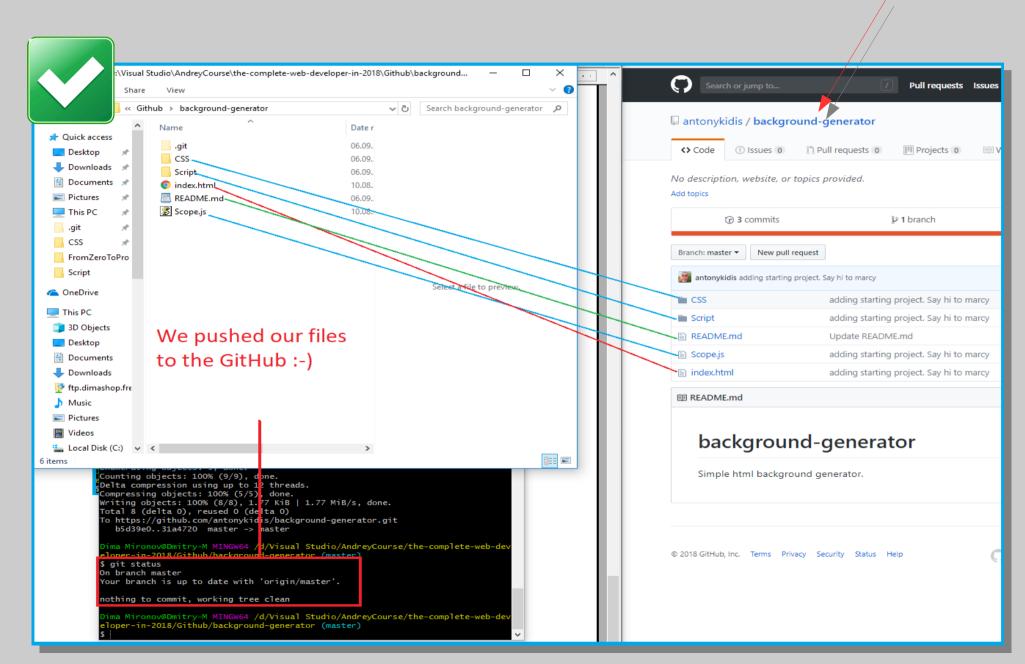
b5d39e0..31a4720 master -> master
```

Great!

Now a background-generator is online



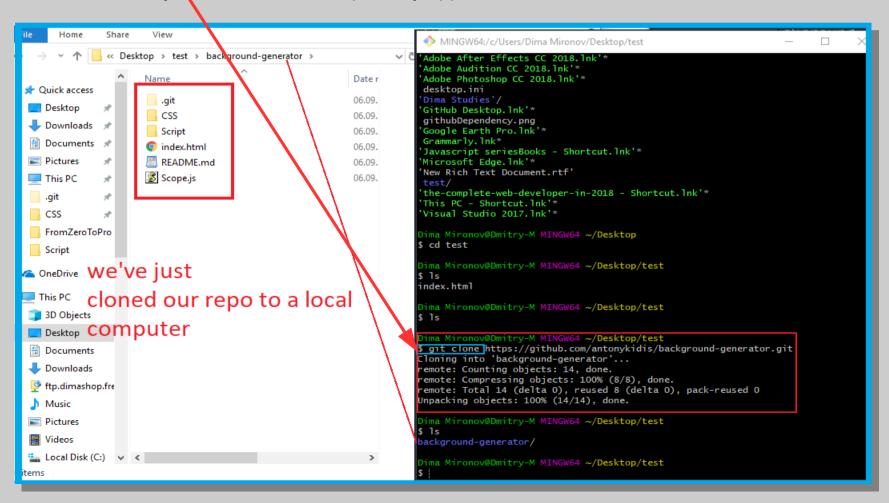
# What we've done so far We succesfully added a new files into GitHub repository





## Next Step - Work on Existing Repository

- Open Terminal(or cmd/bash/powrshell in windows)
- Navigate to the folder where you want to download a GitHub existing repository
- Copy repository's url from GitHub
- Type the following command (Example)
   git clone https://github.com/antonykidis/background-generator.git
- Finally check if a cloned repository appears in the desired folder



#### Next Step - Pushing a modified files back to a GitHub

- For example: open index.html and change the title<h1>here</h1> to a cool generator
- 2. Save it
- Comeback to a terminal window, and type git status

You should see a similar output

Type git add (adding the index.html)

7.Go to

**GitHub** 

- Type git commit -m "title has been changed" (save changes)
- Type git push (pushing the changes back to server)



our branch is ahead of 'origin/master' by 1 commit

v@Dmitry-M MINGW64 ~/Desktop/test/background-generator (master)

(use "git push" to publish your local commits)

merating objects: 5, done. nting objects: 100% (5/5), don

```
\infty MINGW64:/c/Users/Dima Mironov/Desktop/Dima Studies/Andrei Negoie/T...
     CSS/ index.html README.md Scope.js Script/
     oima Mironov@Dmitry-M MINGW64 ~/Desktop/Dima Studies/Andrei Negoie/The Complete
     Web Developer 2018/BackGroundGenerator/background-generator (master)
       start code index.html
     Dima Mironov@Dmitry-M MINGW64 ~/Desktop/Dima Studies/Andrei Negoie/The Complete
     leb Developer 2018/BackGroundGenerator/background-generator (master)
     S ait status
    On branch master
     Your branch is up to date with 'origin/master'.
    Changes not staged for commit:
       (use "git add <file>..." to update what will be committed)
       (use "git checkout -- <file>..." to discard changes in working directory)
    no changes added to commit (use "git add" and/or "git commit -a")
     Dima Mironov@Dmitry-M MINGW64 ~/Desktop/Dima Studies/Andrei Negoie/The Complete
     Web Developer 2018/BackGroundGenerator/background-generator (master)
                                                                                                 The Complete Web Devel X
File Edit Selection View Go Debug Tasks Help
                                                                                                ← → C 🏠 🗎 GitHub
                                                                                               Apps ___ music for video

■ OPEN EDITORS

                                  <!DOCTYPE html
                                                    title has been
                                                    changed now
                                                                                                     Search or jump
                                     <meta http-
                                                    to cool Generator
                                     <title>Gradier
                                      <meta name="view
                                     k rel="styleshe"
     (i) README.md
                                     link rel="styleshe"
                                                                ps://stackpath.bootstrapco
                                   <body id="gradient">
                                     cdiv class="cntr">
                                                                  antonykidis / background-generator
                                  <h1>Cool Generator</h1>
                                  <input class="color1" type="color" na</pre>
                                   <input class="color2" type="color" na</pre>
                                                                   ♦ Code () Issues () () Pull requests ()
                                                                                                    III Projects 0
    MINGW64:/c/Users/Dima Mironov/Desktop/test/background-generato
                                                                   Branch: master ▼
         onov@Dmitry-M MINGW64 ~/Desktop/test/background-generator (master)
                                                                     Commits on Sep 6, 2018
       index.html README.md Scope.js Script/
                                                                       title has been changed
                                                                       antonykidis committed 18 minutes ago
   [master 5c9dc71] title has been changed
1 file changed, 1 insertion(+), 1 deletion(-)
                                                                       adding starting project. Say hi to marcy
                                                                       antonykidis committed 3 hours ago
     ma Mironov@Dmitry-M MINGW64 ~/Desktop/test/background-generator (master)
```

Undate README.md

Initial commit

antonykidis committed 6 hours ago

antonykidis committed 6 hours ago

# Navigate to committs link

And see the actual changes we've just made

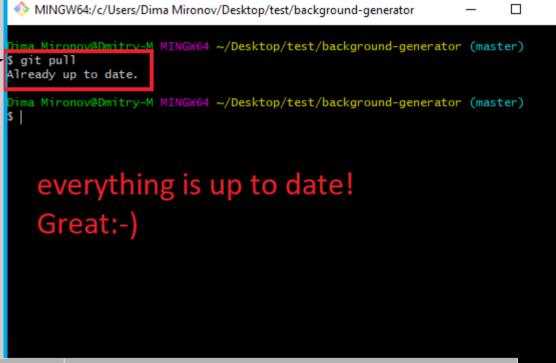
As you can see the title has been changed to a Cool Generator

Showing 1 changed file with 1 addition and 1 deletion. title has changed 2 index.html @@ -11,7 +11,7 @@ </head> <body id="gradient"> <div class="cntr"> 13 14 - <h1>Background Generator</h 14 + <h1>Cool Generator</h1> 15 <input class="color1" type="color" name="color1" value="#00ff00"> 16 <input class="color2" type="color" name="color2" value="#ff0000"> 17 17 盘 0 comments on commit 5c9dc71

### We can pull the latest version from GitHub



Useful commands



git add <files, folders="" or=""></files,>	Adds a new files to repo(via config file)
git rm <files folders="" or=""></files>	Removes files, or folders from GitHub
git add .	Adds all files and folders
git commit	Save changes to config file, and prepare pushing it to the server
git push	Pushes the new changes back to server, and updates the remote repository
git pull	Pulls the latest version of the repository from a GitHub
git status	Checks the overall status of repository