

Make Repo and an empty bash script
Write a bash script to create a base project directory
Run the bash script
Add a pic to 7BBG2016_Bioinformatics
This is what the pic is

Make Repo and an empty bash script

- Go to github and make a new repository called: `bioinformatics_course`
 - create an empty README.md
- Open a Terminal on your computer
- use `git clone` to clone your repository to your local computer
- RUN THIS IN YOUR TERMINAL:

```
1  ## NOTE: Remeber to replace YOUR_GIT_USER_NAME with your github
   username
2  ## eg:if I was running this command it would look like:-
3  ## git clone https://github.com/AlfredoKCL/7BBG2016_Bioinformatics.git
4  git clone
   https://github.com/YOUR_GIT_USER_NAME/bioinformatics_course.git
5
```

- move to your the folder you downloaded on your local computer
- RUN THIS IN YOUR TERMINAL:

```
1  cd bioinformatics_course
```

- create a new directory called `scripts`
- RUN THIS IN YOUR TERMINAL:

```
1  mkdir -p scripts
```

- move to scripts and make a new empty bash file :
- RUN THIS IN YOUR TERMINAL:

```
1  cd scripts
2  touch my-script.sh
```

- Open your script `my-script.sh` in any text editor (NOT WORD) : see <https://www.life>

[wire.com/best-free-text-editors-4155819](https://www.wire.com/best-free-text-editors-4155819) and choose one.

- add the shebang (see [https://en.wikipedia.org/wiki/Shebang_\(Unix\)](https://en.wikipedia.org/wiki/Shebang_(Unix)))
- ADD THIS TO YOUR SCRIPT USING A TEXT EDITOR (CUT AND PASTE)

```
1 | #!/usr/bin/env bash
```

- Save the `my-script.sh`
- Close the text editor
- Then in the terminal run your git workflow: git add, git commit, git push to github
- RUN THIS IN YOUR TERMINAL:

```
1 | git add .
2 | git commit -m "added empty script"
3 | git push
```

- go to your git repo on github and see if it has all been successfully pushed to github
- add me `AlfredoKCL` as a collaborator

Write a bash script to create a base project directory

- open your script `my-script.sh` in any text editor: see <https://www.lifewire.com/best-free-text-editors-4155819> and choose one
- write a script to make the following subdirectories and add a README.md to each folder
 - data
 - docs
- ADD THIS TO YOUR SCRIPT USING A TEXT EDITOR (CUT AND PASTE)

```
1 | #!/usr/bin/env bash
2 | # make empty directories in your git repo
3 | mkdir -p analysis docs data
4 |
5 | # add a README.md to each directory
6 | # the scripts directory already exists
7 | for my_directory in scripts analysis docs data;do
8 |     touch ${my_directory}/README.md
9 |     echo "# ${my_directory}" >> ${my_directory}/README.md
10 | done
```

- Save the file
- Close the text editor

- Open your terminal
- Move to the scripts dir
- make the script executable using `chmod +x`

```
1 cd bioinformatics_course/scripts
2
3 chmod +x my-script.sh
4
```

- now git add, git commit, git push to github
- RUN THIS IN YOUR TERMINAL:

```
1 git add .
2
3 git commit -m "not tested: updated script to make empty dirs and
  README.md"
4
5 git push
```

Run the bash script

- now test your script
- Open your terminal
- move to the `bioinformatics_course` folder
- If you are not sure where you are, type `pwd` in the Terminal
- Run your script `./scripts/my-script.sh`
- List the contents of the directory
- Run git workflow to add, commit and push changes to github
- RUN THIS IN YOUR TERMINAL:

```
1 ## Move to bioinformatics_course
2 cd bioinformatics_course
3
4 ## Run Script
5 ./scripts/my-script.sh
6
7 ## did it create any output?
8 ls -ls
9
10 ## if yes: add them to git
11 git status
12 git add .
13 git commit -m "tested: my-script.sh directories created"
14 git push
```

Add a pic to 7BBG2016_Bioinformatics

- RUN THIS IN YOUR TERMINAL:

```
1  ## clone 7BBG2016_Bioinformatics into your HOME directory
2
3  # move to your home directory
4  cd ~/
5
6  # clone the github repository
7  git clone https://github.com/AlfredoKCL/7BBG2016_Bioinformatics.git
8
9  ## Move to 7BBG2016_Bioinformatics
10 cd 7BBG2016_Bioinformatics
11
12 # set your name: add your name where it says
13 # INSERT_YOUR_NAME_HERE in the text below
14 your_name="INSERT_YOUR_NAME_HERE"
15
16 # This next bit of code
17 # checks if the folder already exists
18 # if not, then it makes a new folder
19 # this code says: if [ ! -d "${your_name}" ]; then
20 # If a directory does not exist then do something:
21 # make a directory
22 if [ ! -d "${your_name}" ]; then
23     # Control will make a DIRECTORY if it doesn't exist.
24     mkdir -p ${your_name}
25 fi
26
27 # add a new image to your README.md
28 # Note: FIX: the quote is a single straight quote
29 echo '![a_new_pic](https://us.v-
    cdn.net/5019796/uploads/FileUpload/eb/44f317f8850ba74b64ba47b02d1bae
    .png)' >> ${your_name}/README.md
30
31
32 # git add, commit, push
33 git pull
34 git status
35 git add .
36 git commit -m "new pic"
```

This is what the pic is

