COMMAND LINE WORKSHOP

What is it?

Text interface for your computer. Terminal, Command Line, CLI

What is Bash?

Bash is a Unix shell and command language written by Brian Fox. Runs in a window (Command Line or Terminal). There are other shell languages... google them if interested!

How to open it or start it?

Linux or Mac -> nothing to do! It already comes with the OS.

Windows -> let's download and install git and use the git bash that comes with it.

Where to know more?

Watch youtube videos on it, visit codecademy.com and learn <u>Most Frequent commands</u>... or visit any other site, type bash commands on google and see where it takes you.

Repository to get material from: https://github.com/marianelamin/commandLineWorkshop

AGENDA

- 1. Introduction
- 2. What is it and why is it useful?

--version

3. Most used commands (open: cheatsheet)

```
whoami, pwd
      ls,
            ls -al
cd,
     /,
           autocomplete with tab
clear,
            mkdir
touch,
            nano
cat,
      less
mv,
      ср
                       createFileWITHsome_output.txt
some_output
                  >
some_output
                       appendFileWITHsome_output.txt
                  >>
man <comnd>, <comnd> --manual (git bash), help <comnd> /? (cmd)
rm, rm-r
which
history
echo $PATH
javac, java, python
```

CHALLENGES

Web Challenge:

- 1. Create a new empty online repository for this challenge with the name CommandLineWorkshop
- 2. Chose a folder to start and create a new folder named MyCode
 - o \$ cd MyCode
- 3. Check your current location by using the following command:
 - o \$ pwd
- 4. Clone your repository by using the following command on the MyCode folder
 - o \$ git clone [pasteYourURLhere]
- 5. List all the files in the current folder
 - o \$ 1s or 1s -a or 1s -a1
- 6. Navigate to the folder CommandLineWorkshop
- 7. Create an empty file called *index.html*
 - o \$ touch myFirstFile.html
- 8. Download the content of the following web page using curl.
 - \$ curl http://manela.web.ve/workshops/command-line-git-bash/index.htm, or type -o before the url
- 9. Copy the downloaded content into myFirstFile.html.
 - o \$ cat index.html >> myFirstFile.html or \$ cp index.html
 myFirstFile.html
 - Open the myFirstFile.html and also open index.html on your favorite browser. Do you see any difference?. Close the browser.
- 10. Remove index.html
 - o \$ rm index.html
- 11. Rename myFirstFile.html to index.html
 - \$ mv myFirstFile.html index.html
- 12. Edit index.html using nano editor
 - o \$ nano index.html
 - Look for the line that says: <body class="containerisimo">
 Change it to say <body class="container">

- Save the changes and exit the editor. if you use nano check at the bottom of the terminal(the window) and see the options.
- 13. Create a file named *style.css* (using \$ nano styles.css) and write the following content:

```
header{
      background: purple;
      min-height: 5rem;
      color: white;
      padding: 3rem;
}
main{
      background-color: cyan;
      min-height: 15rem;
      padding: 3rem;
      color: gray;
footer{
      background: gray;
      min-height: 3rem;
      color: yellow;
      padding: 1rem;
```

After written, save and exit.

- 14. Organize your files in this order, you might want to use ls, cd, mv, mkdir...
 - o MyCode
 - i. CommandLineWorkshop
 - 1. index.html
 - 2. css
 - a. Style.css
- 15. Create a file with the name this IsWhat ILearned Today. txt and save all the lines of code you have typed since the beginning of time.
 - \$ history > thisIsWhatILearnedToday.txt
- 16. Save the changes and do a commit to your repository
 - o \$ git status
 - o \$ git add .
 - o \$ git commit -m "This is my first commit, Yay!"
 - o \$ git push
 - o note: You might have to enter your github username and password
- 17. Check out your online repository.

CHALLENGES

Java Challenge:

- 1. From the previous challenge, when you cloned the repository you downloaded a folder named *java-chat-cs331*. Look for that folder and navigate to it.
- 2. List the files on the folder. These are Java files.
- 3. Compile both files
- 4. Run the Server
- 5. Check out and fix any bugs
- 6. Run the Client
- 7. Check and fix bugs

Note: You won't need to touch the code at all.

Useful commands:

- o \$ git clone <URL of the repository>
- \$ javac filename.java
- o \$ java filename (note that there is no extension here)
- \$ cat filename.java (see the content of the file)
- \$ less filename.java (see the content line per line)

The repository to clone will be:

https://github.com/marianelamin/commandLineWorkshop.git