

# Command Line



Week 01 - Day 01

Graphical User Interface (GUI)

Vs

Command Line Interface (CLI)

Slack File Edit View History Window Help

100% Fri 9:36 AM Edoardo Venturini

https://docs.google.com/presentation/d/1A4UHL6pezAaStK77/... Search

### tools-command\_line-lesson-master

File Edit View Insert Format Slide Arrange Tools Table Add-ons Help All changes saved in Drive Slack - GA Immersive Students

#### GA Immersive S...

Edoardo Venturini

Jump to...

All Threads

Channels

- # global
- sg-dsi-3

Direct Messages

- slackbot
- Edoardo Venturini (you)
- Jeryl Ong
- Jeryl Ong, Rayden Chua

#### sg-dsi-3

27 2

Yesterday please let us know by tonight!


7 8 new messages

**Chenghan** 6:02 PM  
sublime or atom?  
Does it matter?

**Rayden Chua** 6:07 PM  
nope. either one will do

+ Message s... @

#### Workspace Directory



#### Themes

Blue & Gold

Click to add title

Click to add subtitle

Tropic

note in GeneralAssembly

click to add tags

Created: 13 Feb 2018 Updated: 22 Feb 2018

#### Notes on lessons

- create a dir, create a txt file, put in the file the path of the directory
- tab for autocompletion
- Why Command Line?
  - take the last lines of a file
  - scripts (oneliner)
- bash cheatsheet
  - <https://www.cheatography.com/dave/sheets/linux-command-line/>
- "ls" is just another piece of software
  - show "which ls"

Click to add speaker notes

#### TODO

Today BY TODAY review installfest material review

```
drwx-----+ 5 edoardoventurini staff 170B Nov 8 16:09 Pictures/
drwxr-xr-x+ 7 edoardoventurini staff 238B Apr 21 2017 Public/
drwxr-xr-x 4 edoardoventurini staff 136B May 5 2017 PycharmProjects/
drwxr-xr-x 5 edoardoventurini staff 170B Jul 19 2017 TEMP/
drwxr-xr-x 24 edoardoventurini staff 816B Feb 22 09:46 anaconda2/
drwxr-xr-x@ 24 edoardoventurini staff 816B Nov 7 10:54 basemap-1.0.7/
-rw-r--r--@ 1 edoardoventurini staff 549K Aug 14 2017 divina_commedia.txt
drwxr-xr-x@ 4 edoardoventurini staff 136B Dec 20 15:15 expenses_claim/
-rw-r--r-- 1 edoardoventurini staff 118M Nov 6 10:08 incidenti_2007_2017.csv
-rw-r--r--@ 1 edoardoventurini staff 573B Jul 20 2017 infinito-leopardi.txt
-rw-r--r--@ 1 edoardoventurini staff 310B Nov 13 12:04 js_d3-cheatsheet.txt
-rw-r--r--@ 1 edoardoventurini staff 398K Feb 1 15:22 koala-wallpaper2.jpg
drwxr-xr-x 4 edoardoventurini staff 136B Jul 7 2017 nltk_data/
-rw-r--r-- 1 edoardoventurini staff 24B Feb 22 17:00 notes.txt
drwxr-xr-x 5 edoardoventurini staff 170B Jul 6 2017 personal/
drwxr-xr-x@ 38 edoardoventurini staff 1.3K Jan 25 15:37 projects/
-rw-r--r-- 1 edoardoventurini staff 2.2K Jan 30 11:41 requirements.txt
drwxr-xr-x 8 edoardoventurini staff 272B Aug 23 2017 scala/
-rw-r--r--@ 1 edoardoventurini staff 2.1K Sep 4 10:20 scala_cheatsheet.txt
drwxr-xr-x 4 edoardoventurini staff 136B Jul 6 2017 seaborn-data/
drwxr-xr-x@ 22 edoardoventurini staff 748B May 30 2017 spark-2.1.0-bin-hadoop2.7/
drwxr-xr-x 33 edoardoventurini staff 1.1K Oct 5 16:35 study/
-rw-r--r--@ 1 edoardoventurini staff 52K Jan 31 11:16 temp.html
-rw-r--r--@ 1 edoardoventurini staff 285B Feb 9 15:15 timer.bash
-rw-r--r--@ 1 edoardoventurini staff 151B Jan 16 09:38 wordpres_chatsheet.txt
drwxr-xr-x 33 edoardoventurini staff 1.1K May 30 2017 xgboost/
(python3) Juan:~ edoardoventurini$
```

CLI == terminal == shell

**Why a GUI?**

Mouse - Point&Click

Easy & Intuitive (not for my mum)

Videos + Images

**Why a CLI?**



Used by hackers in the movies

Fast

Powerful

Get the last 1K likes in a file with 1M lines

```
tail -n 1000 file_name.csv > last_1000.csv
```

Get all the 1000 links in links.txt

Download all the relative html pages

Open all the pages

Check which pages contains the word  
“password”

```
wget -i file.txt && grep -r "password" .
```

**(some)  
Commands  
you'll learn  
today**

Command	Action
<code>cd directory_name</code>	change directory
<code>touch file_name</code>	create a file
<code>ls directory_name</code>	list files in a dir
<code>mkdir directory_name</code>	create a dir

`cd .. - go back`

`ls - print files in current dir`

`pwd - print current dir path`



## **Exercise (in pairs!)**

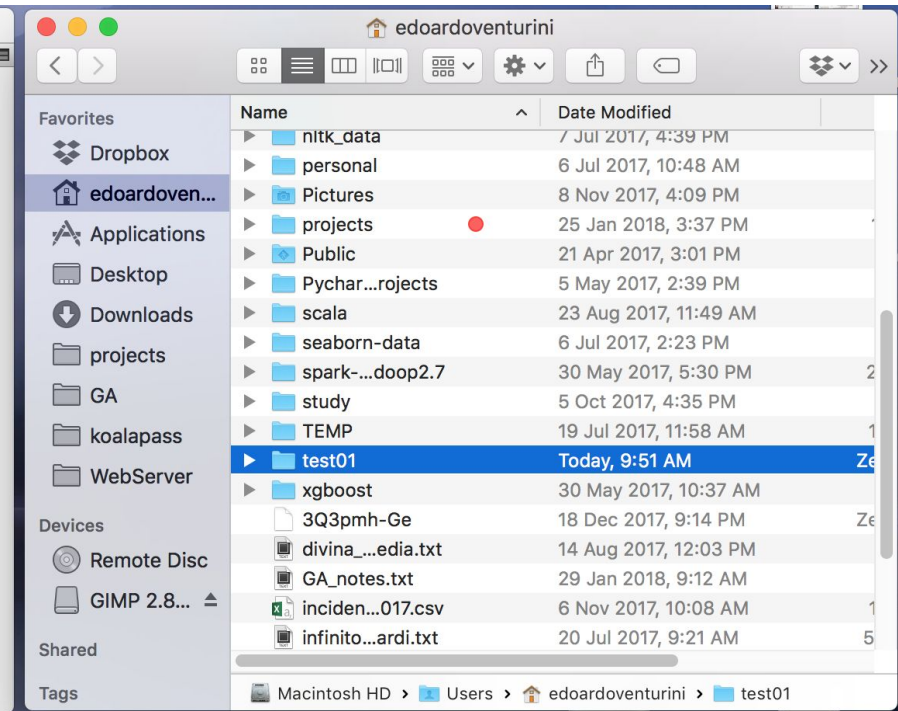
1 - create a new dir

2 - enter in the dir

3 - create 2 files

4 - list the files in the dir

```
edoardoventurini — -bash — 75x25
Last login: Thu Feb 22 15:19:05 on ttys003
[Juan:~ edoardoventurini$ mkdir test01
Juan:~ edoardoventurini$ ]
```



**Some  
useful  
concepts**

Relative path

Vs.

Absolute path

## Pipeline

```
cat /etc/passwd | wc -l
```

# Wildcards

```
rm *_test*
```

`man command_name`

(exit with q)

TAB - autocomplete  
(try double push)



# **Other commands**