

Welcome to our first 2019 coding skills course!!

This etherpad is for you to take notes. The notes will be stored to the event page after/during the workshop!

Use the chat window for chatting offline.

All links and notes will be shared through the event page:

<https://indico.mpi-cbg.de/event/135/timetable/#20190114>

Please download and expand this zipfile:

<http://swcarpentry.github.io/shell-novice/data/data-shell.zip>

Current course material: <https://swcarpentry.github.io/shell-novice/>

```
/Users/wiegand
/Users/love
/home/danils
cd
/c/Users/blee
/Users/poser
/Useqq
rs/hpetzoldls -F
```

```
/Users/victoriayan
/Users/fberndt
/Users/dsaha/Desktop/data-shell
/Users/Johannes/Desktop/data-shell
/home/steinbac
/c/Users/vinograd/Documents/data-shell/data-shell
/c/Users/kellerp
/Users/dsaha/Desktop/data-shell
/home/rhaase/
/mnt/c/User/Cedric/Documents/GitHub/MPI-CPG/data_analysis/data-shell/data
/Users/guhr
/Users/janosch
```

```
*
*  _...-~::~~::~-_-_-_-~::~~::~-..._
* //          \V          //
* //          |          //
* //__...-~::~~::~-_-_-_-~::~~::~-..._//
* //__...-~::~~::~-_-_-_-~::~~::~-..._//
*=====\\//=====
*          dwb `---`
```

ls - change directory

Unix/Linux commands

<http://cheatsheetworld.com/programming/unix-linux-cheat-sheet/>

clear

CTRL-L

TAB - tab completion,
arrow up/down = recall last commands

mkdir - make directory

<https://wiki.mpi-cbg.de/compdoc/Filenames>

nana

yes = 0 bytes

Stephan Janosch: yes

blank text file, 0 bytes,

empty file, 0 bytes

yes 0 bytes

Use touch to check if you are allowed to write to a folder

rm - remove

sudo rm -rf / <<-- DON't do this. It will delete your whole file system. Also stuff of your colleagues if the filerserver is mounted. ?? Actually, who wrote this here?

Day1, morning feedback:

(green)

- I liked the clear explanations of the commands to use in terminal. Very useful!

- Alles is gute!

- interactive learning, +2

- very detailed explanations

- everything

- using terminal and command lines

- certain shortcuts

- never used touch or nano

- already knew except for some flags like 'ls -a'

- really good step-by-step intro

- cp & mv can commands can change filenames

- I learned some new bash commands

- moving through directories

- like the setup

(red)

- need more time

- moving/copying files, +1

- maybe a bit faster, +1

- mv/cp a bit too fast

- risk of overwriting files

*Day1 after lunch

ls th?sis*/*txt

*Pipes and Filters

wc -l [] count lines
 sort [] sort file
 head [] show the first lines of a file
 tail [] show the last lines of a file; example: "tail -n 1 sorted-lengths.txt" gives you the last line

cat text1.txt > overwrittenFile.txt
 cat text1.txt > overwrittenFile.txt

cat text1.txt >> appendingFile.txt
 cat text1.txt >> appendingFile.txt

CTRL a - go to beginning of line
 CTRL e - go to end of line

- ls NENE*[AB].txt

```

*
* .
* ,i \
* ,'8b \
* ,;o `8b \
* ; Y8. d8 \
*+,_ 8: d8. i:
* `:8 `8i `8
* `._Y8 8: ____
* `---Yjdp "8m._
*     ,""_o9 `m._
*     |o8P"_.8d8P`-._
*     :8' _oodP" ,dP`-._
*     `: dd8P' ,odP' do8`.
*     `-' ,o8P' ,o8P' ,8P`.
*     `._dP' ddP' ,8P' ,..
*     "`. PP' ,8P' _d8'L..__
*     `"-_88' .PP,'7 ,8.`-.._
*     `""--"" | d8':8i `i.
*     l d8 d8 dP/
*     \ `J8' `P'
*     \ ,8F 87
*     `88 ,'
*     `,-' mh
  
```

OPEN MULTIPLE FILES WITH NANO

open nano with: nano -F <filename>
 CTRL+R opens a second, third, .. file
 ALT+, and ALT+. allows you to switch between files

if you want to remember which cool things you did recently with the grep command run
 history | grep grep

Day1, afternoon feedback:

(green)

- covered a good spread of functions and gave each the appropriate amount of attention
- good overview, nice sessions today
- how to organize files with wildcards, pipes and loops
- peter's way of teaching
- questions with 4 answers
- so many tools, I learned today. Many of my crapy scripts are oboslete now because I can

do everything simply from the command line now

- I liked the examples, +1
- I liked it all, +1
- got a good idea what can be done with tools, pipes, filters and loops
- very in depth

(red)

- a bit fast, but I will review your detailed notes
- too fast for me, need to spend more time on it individually
- the afternoon is quite packed
- not sure what is the most elegant way with real filesets
- grep/find could have been introduced earlier
- too slow to cover all material

(red)