# **NAVIGATION**

Imagine that you are in a file browser. You have folders (directories) and stuff in the folders.

• cd - Moves you to where you want to go

cd folder

• pwd - Tells you where you are

pwd

/an/example/folder

• Is – Lists your stuff: -a  $\rightarrow$  hidden files; -l  $\rightarrow$  permissions

ls
stuff\_in\_folder.dat
ls -a
stuff\_in\_folder.dat .hidden\_stuff\_in\_folder.dat
ls -1
-rw-r--r-- 1 me me 26978 Feb 14:41 file.dat

• history – Lists previously run commands

#### **PERMISSIONS**

You are not root! You can only access your own data without root access!

• chmod - Change access mode

chmod +x file

• sudo – Envokes the power of root for one command.

sudo command
[sudo] password for user:

• su - You become root (use root password)

# **FILE MANIPULATION**

Everything short of text editing

- mkdir Makes a directory
- rmdir Removes a directory

rmdir/mkdir folder

• touch - Initializes file

touch file

• rm - Removes a file

rm file

rm -r directory

- cp Copies a file
- mv Moves a file

mv old\_file\_location new\_file\_location

• cat - Prints text from file

cat file

- head -Prints top of file
- tail Prints bottom of file

head/tail -n 5 file

#### **PIPING**

From A to B

- Symbols:
- | Parses command output
- >> / > Appends to / rewrites file with output
- echo Repeats what you just said

echo "hey" >> file

• grep - Prints lines matching a pattern

lspci | grep VGA

### **INFORMATION**

All the stuff you need to know about your pc

• man - Provides manual

man program

- top Info on what's running
- free -m Info on free memory
- ps Lists active processes

ps -ef | grep chromium

• kill, pkill, killall - kills a process

pkill process

- Isblk Info on partitioning scheme
- du Lists size of file

du -h file

• df - Info on free space

df -h

• Ispci - Info on all devices

lspci | grep VGA

# **USEFUL SHORTCUTS**

Things you might want to know...

- TAB autocompletes commands or files. Hit twice to ls.
- "\*" means "everything with this component."

ls \*bear\*

- Stuck program? Press CTRL+C!
- Stuck in a text editor? Try the following:
- ESC, then q (nano)
- ESC, then ":q!", then ENTER (vi / vim)
- ESC, then CTRL+C (emacs)
- CTRL+D logs out
- CTRL+L clears the terminal
- CTRL+A moves cursor to start of line
- CTRL+E moves cursor to end of line
- ullet Spaces are "\ " [BACKSLASH + SPACE] in the terminal
- "~" means "/home/user"
- "." is your current directory and ".." is the directory under yours