SE3 Bash Commands

Description

- The color code is the following: blue is for the command, cyan is for option(s), red is for argument(s) and grey is for comments
- In the following examples: foo, bar, f, b are directories; foo.txt, f.txt, b.txt are files
- [command], [command1], [command2] should be replaced with an actual bash command
- login should be replaced with your login
- computer should be replaced with an actual computer name like reuze01, phinaert02, gayant04...

Basic Terminal Navigation

```
bwd
         # print working directory
ls
         # List files and directories
ls -a
         # List including hidden
ls -l
         # List in long form
         # List directory and file tree
tree
tree -a # List tree including hidden
tree -d # List directory tree
tree -L X # List tree with limit depth X
cd foo
         # Go to foo sub-directory
cd /
         # Go to root
         # Go to the parent folder
cd ..
         # Go to home directory
cd ~
         # Go to home directory
cd -
         # Go to previous directory
```

Creating Directories

```
mkdir f  # Create a directory f
mkdir f b # Create f and b directories
mkdir -p f/b # Create nested directories
```

Moving Directories

```
cp -R f b # Copy directory f into b
mv f b # Move directory f into b
```

Deleting Directories

rmdir f # Delete non-empty directory
rm -r f # Delete dir including contents
rm -rf f# Delete directory including
contents, ignore nonexistent files and
never prompt

Creating Files

```
touch f  # Create or update file
touch f b # Multiple files
```

Moving Files

```
cp f.txt b.txt # Copy file
mv f.txt b.txt # Move file
rm f.txt # Delete file
rm -f f.txt # Delete file w/o prompt
```

.....

Reading Files

```
cat foo.txt # Print all contents
less foo.txt # Better print
head foo.txt # Top 10 lines
tail foo.txt # Bottom 10 lines
open foo.txt # Edit file
wc foo.txt # num of lines,words,chars
```

Finding Files

```
find f -name foo.txt # Find a file
find f -name "*.txt" # Find txt files
find f -type d -name b# Find b named dir
```

Search in Files

```
grep 'foo' b.txt# search in file
grep 'foo' bar -r # search in dir
grep 'foo' b.txt -v# show not matching
grep 'foo' b.txt -c#count matching lines
```

Sort in File

```
sort foo  # sort file alphabetically
sort -n foo  # sort file numerically
sort -r foo  # reverse sort
```

I/O Redirection and Chaining

```
[command] > foo.txt # writes the output
of [command] in file foo.txt
[command] >> foo.txt # appends the
output of [command] in file foo.txt
[command] < foo.txt # uses foo.txt as
input for command
[command1] | [command2] # uses output of
[command1] as input for [command2]</pre>
```

Connexions

```
ssh login@computer
ssh arsenic
ssh login@portier.polytech-lille.fr -p
2222
```

Shortcuts

```
Tab # auto-complete commands and files
Up/Down Arrow # navigate through history
CTRL + r/s # backward or forward search
in your command history
CTRL + a/f # moves the cursor to the
beginning / end of the line
ALT + b/f # moves the cursor backward /
forward one word
CTRL + l # clears the screen
CTRL + u # clears the line and copies it
to the clipboard
CTRL + k # clears the line after the
cursor and copies it to the clipboard
```