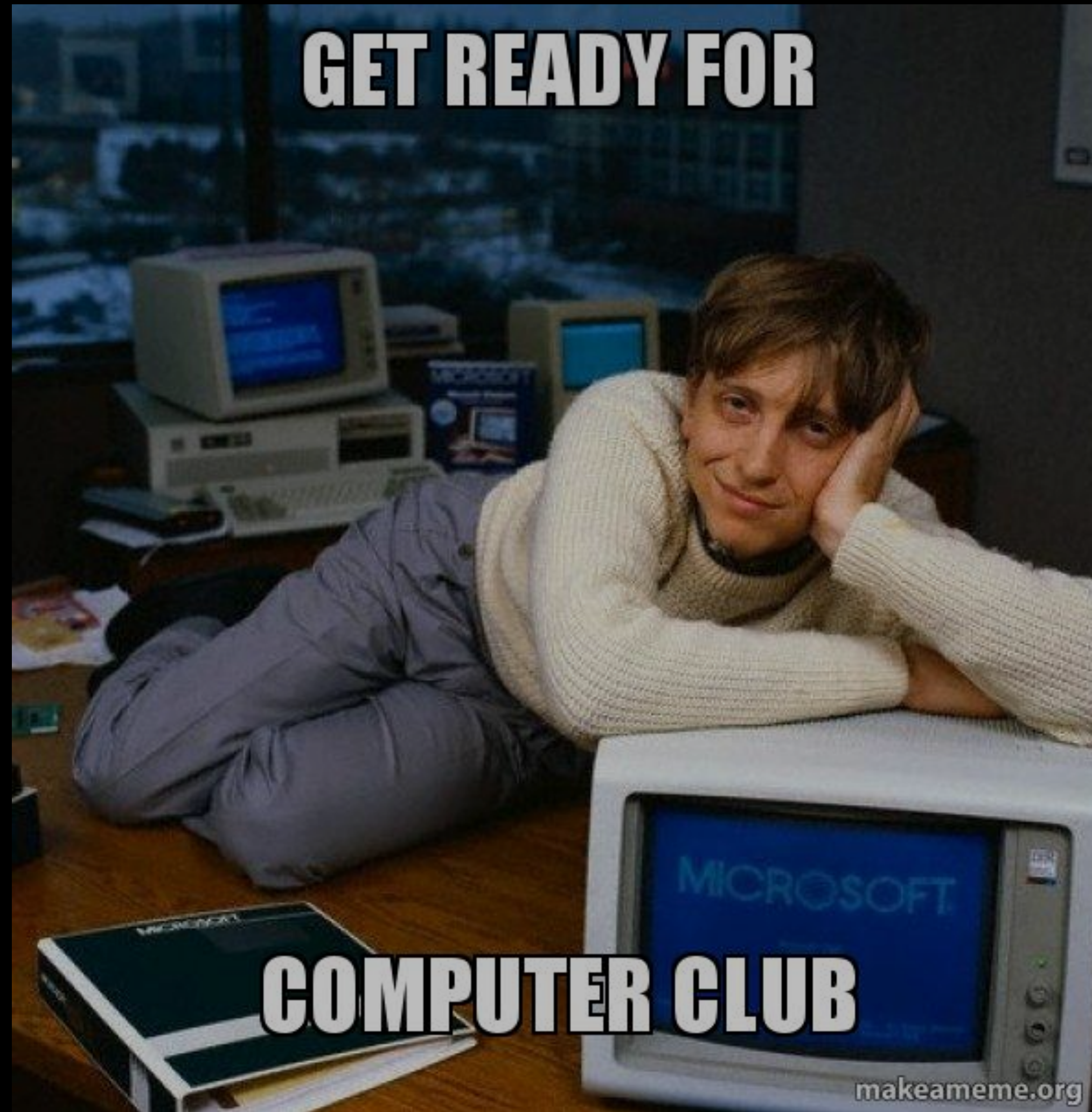


Le blanchiment des images

— technical input (part 01)



```
Terminal
drwxr-xr-x  2 bin      128 Nov 26 18:13 conf
-rw-r--r--  1 bin      291 Nov 26 18:13 conf.h
-rw-r--r--  1 bin      492 Mar 21 12:07 conf.o
drwxr-xr-x  2 bin      400 Dec  2 18:20 dmr
-rw-r--r--  1 bin      157 Nov 26 18:13 file.h
-rw-r--r--  1 bin      188 Nov 26 18:13 filsys.h
-rw-r--r--  1 bin      581 Nov 26 18:13 inode.h
drwxr-xr-x  2 bin      352 Nov 26 18:13 ken
-rw-r--r--  1 bin        35 Nov 26 18:13 ld
-rw-r--r--  1 bin    48158 Nov 26 18:13 lib1
-rw-r--r--  1 bin   39670 Dec  2 18:20 lib2
-rw-r--r--  1 bin      816 Mar 21 12:06 low.o
-rw-r--r--  1 bin     3744 Mar 21 12:07 mch.o
-rw-r--r--  1 bin      957 Nov 26 18:13 param.h
-rw-r--r--  1 bin      386 Nov 26 18:13 proc.h
-rw-r--r--  1 bin      142 Nov 26 18:13 reg.h
-rw-r--r--  1 bin      217 Nov 26 18:13 seg.h
-rw-r--r--  1 bin      422 Nov 26 18:13 systm.h
-rw-r--r--  1 bin      115 Nov 26 18:13 text.h
-rw-r--r--  1 bin      868 Nov 26 18:13 tty.h
-rw-r--r--  1 bin     1217 Nov 26 18:13 user.h
# ls -l /unix
-rwxrwxrwx  1 bin     25802 Mar 21 12:07 /unix
#
```



UNIX command line

UNIX ~~command line~~ shell

UNIX bash shell

Navigating files and directories

General syntax of a shell command

Loops

Variable

Packages

Scripts

Be creative

Navigating files and directories

General syntax of a shell command

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Be creative



 berenice.serra@fhnw.ch — -zsh — 80x24

[berenice.serra@fhnw.ch@BA14AM55020 ~ % cd

berenice.serra@fhnw.ch@BA14AM55020 ~ % █



 berenice.serra@fhnw.ch — -zsh — 80x24

[berenice.serra@fhnw.ch@BA14AM55020 ~ % cd]

[berenice.serra@fhnw.ch@BA14AM55020 ~ % ls]

Creative Cloud Files	Downloads	Music
Desktop	Library	Pictures
Documents	Movies	Public

berenice.serra@fhnw.ch@BA14AM55020 ~ % █



 berenice.serra@fhnw.ch — -zsh — 80x24

[berenice.serra@fhnw.ch@BA14AM55020 ~ % cd

[berenice.serra@fhnw.ch@BA14AM55020 ~ % ls

Creative Cloud Files

Downloads

Music

Desktop

Library

Pictures

Documents

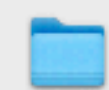
Movies

Public

[berenice.serra@fhnw.ch@BA14AM55020 ~ % pwd

/Users/berenice.serra@fhnw.ch

berenice.serra@fhnw.ch@BA14AM55020 ~ %



berenice.serra@fhnw.ch — -zsh — 80x24

```
[berenice.serra@fhnw.ch@BA14AM55020 ~ % cd  
[berenice.serra@fhnw.ch@BA14AM55020 ~ % ls  
Creative Cloud Files    Downloads          Music  
Desktop                Library           Pictures  
Documents              Movies            Public  
[berenice.serra@fhnw.ch@BA14AM55020 ~ % pwd  
/Users/berenice.serra@fhnw.ch  
[berenice.serra@fhnw.ch@BA14AM55020 ~ % man ls  
Unknown locale, assuming C  
berenice.serra@fhnw.ch@BA14AM55020 ~ % █
```



LS(1)

General Commands Manual

LS(1)

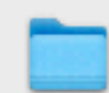
NAME**ls** — list directory contents**SYNOPSIS****ls** [-@ABCFGHILOPRSTUWabcdefghijklmnopqrstuvwxyz1%,] [--color=when]
[-D format] [file ...]**DESCRIPTION**

For each operand that names a file of a type other than directory, **ls** displays its name as well as any requested, associated information. For each operand that names a file of type directory, **ls** displays the names of files contained within that directory, as well as any requested, associated information.

If no operands are given, the contents of the current directory are displayed. If more than one operand is given, non-directory operands are displayed first; directory and non-directory operands are sorted separately and in lexicographical order.

The following options are available:

: █



berenice.serra@fhnw.ch — -zsh — 80x24

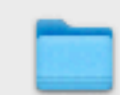
[berenice.serra@fhnw.ch@BA14AM55020 ~ % ls -F]

Creative Cloud Files/	Downloads/	Music/
Desktop/	Library/	Pictures/
Documents/	Movies/	Public/

[berenice.serra@fhnw.ch@BA14AM55020 ~ % ls -S]

Downloads	Movies	Documents
Desktop	Pictures	Music
Library	Creative Cloud Files	Public

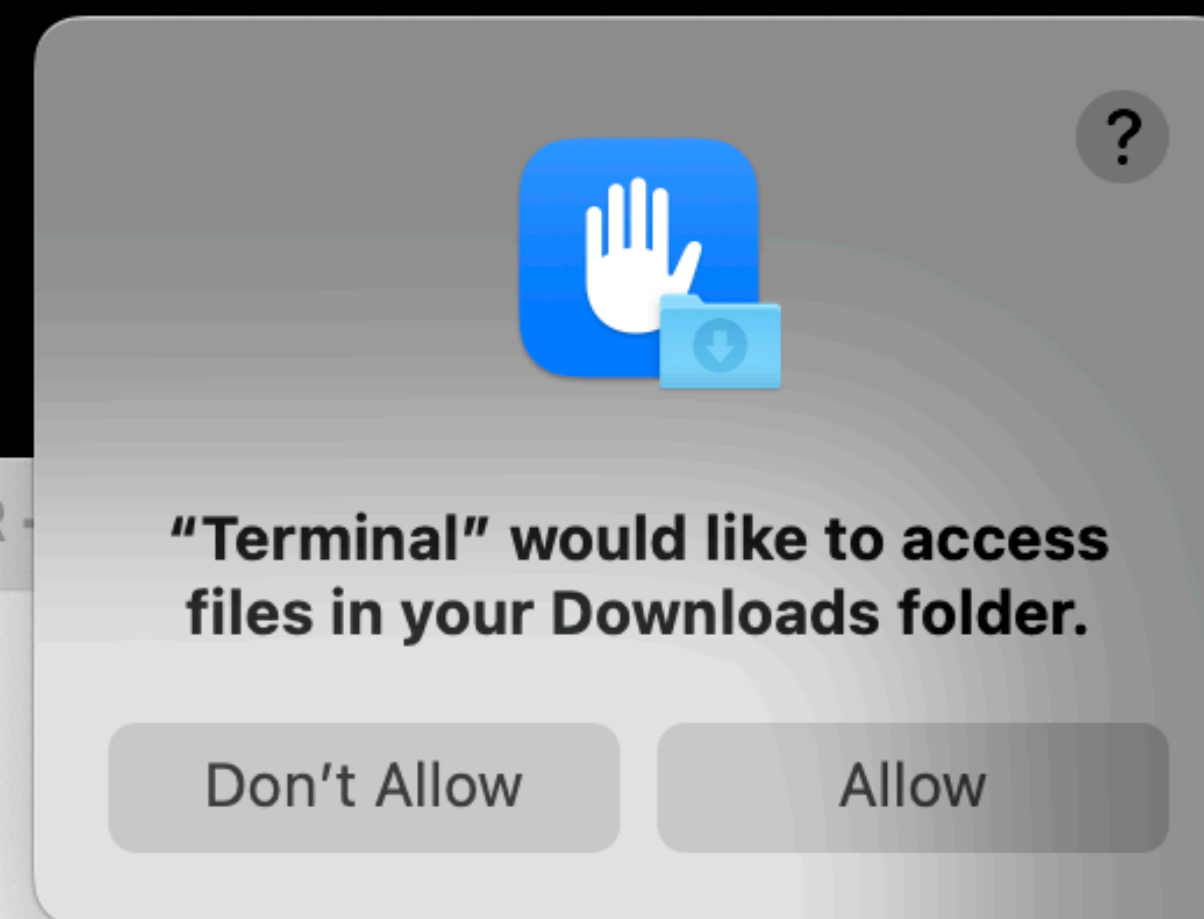
berenice.serra@fhnw.ch@BA14AM55020 ~ % clear

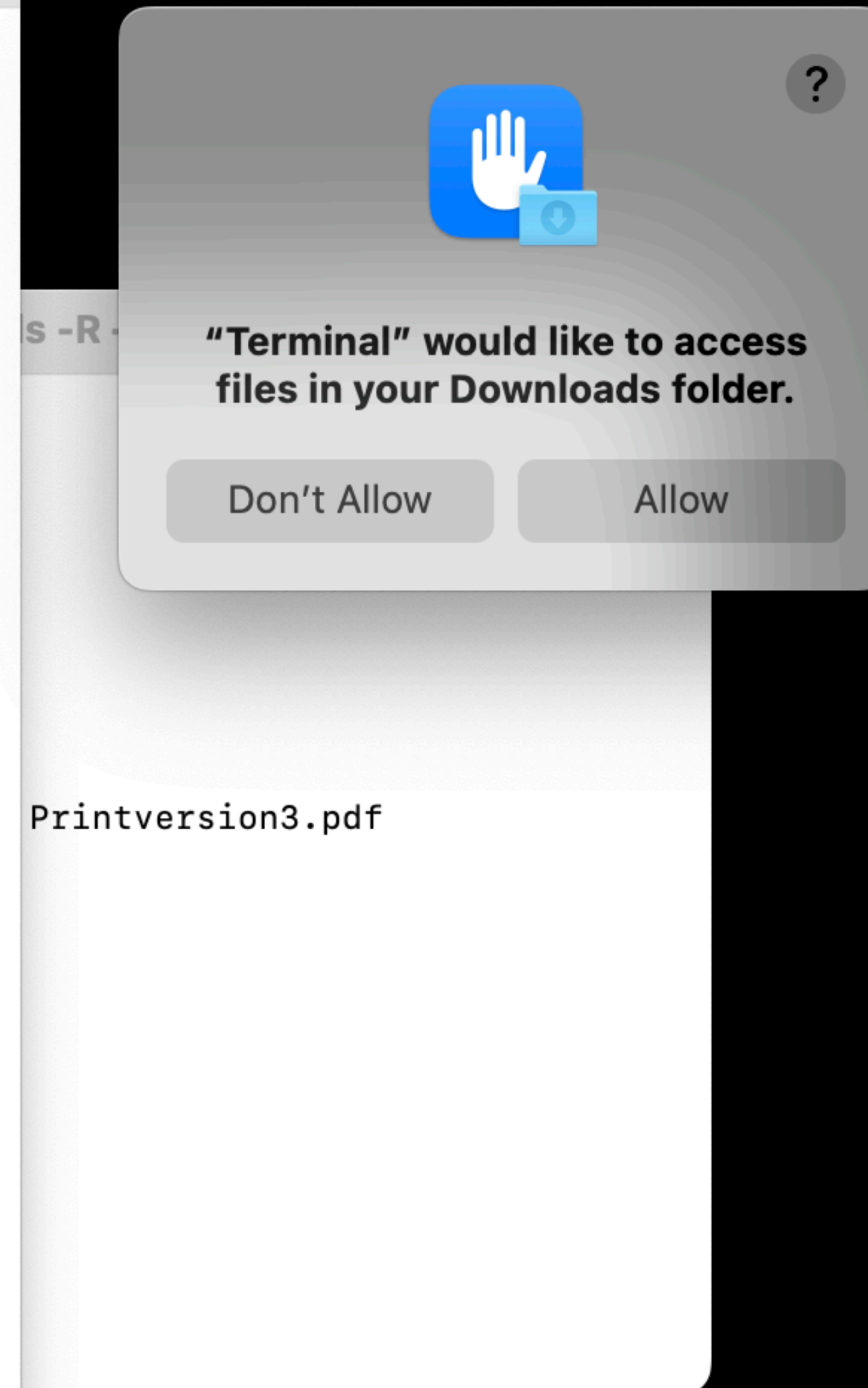
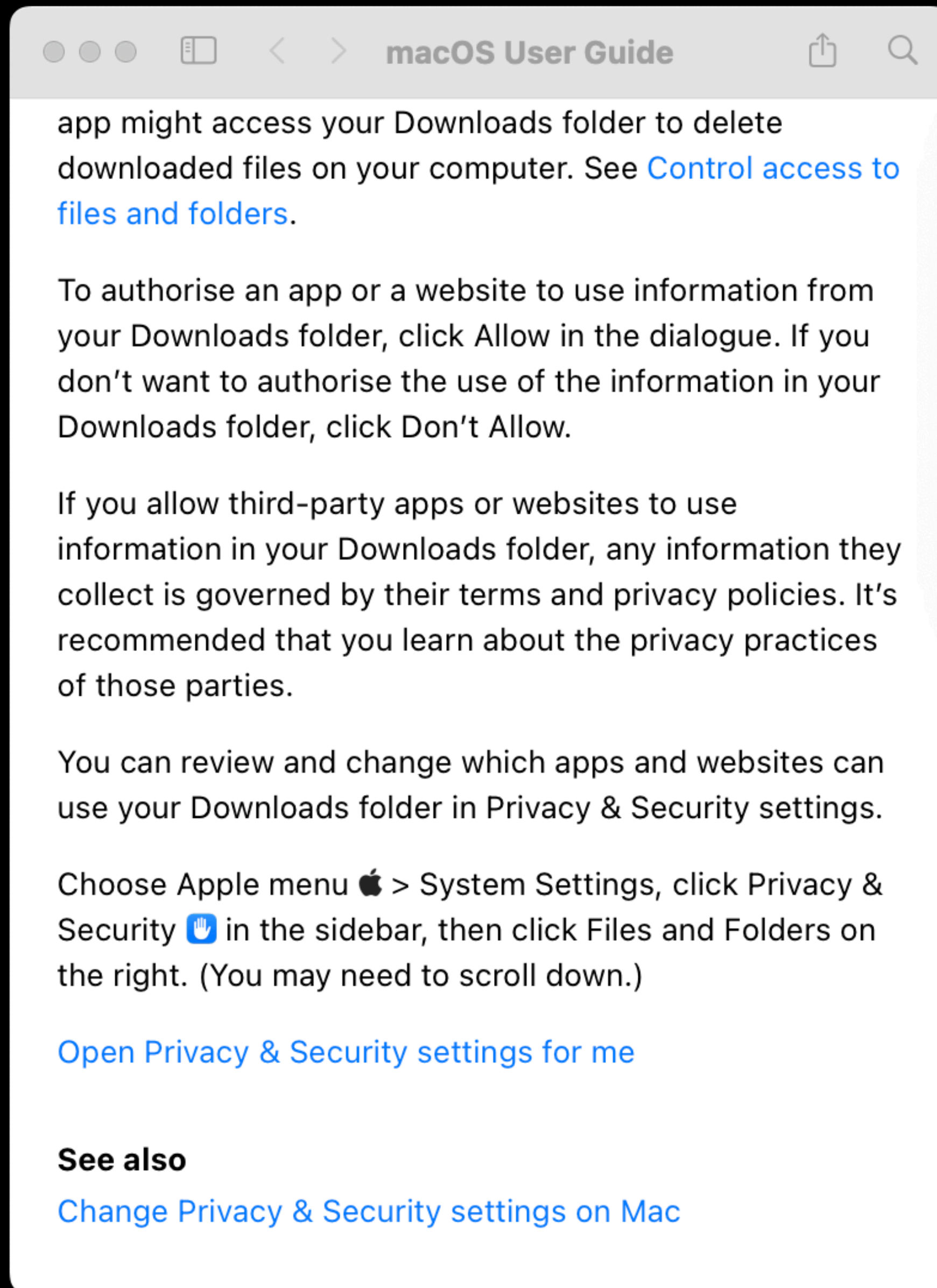


berenice.serra@fhnw.ch — -zsh — 80x24

berenice.serra@fhnw.ch@BA14AM55020 ~ %

```
berenice.serra@fhnw.ch — ls -R  
Screenshot 2023-11-09 at 14.28.17.png  
Screenshot 2023-11-09 at 14.31.39.png  
bruit.jpg  
hello-eric.ai  
soleil.pdf  
trame.psd  
  
./Desktop/untitled folder 2:  
  
./Desktop/untitled folder 3:  
David-01.pdf          MyFirstHome-Print.pdf  Printversion3.pdf  
David-02.pdf          Printversion1.pdf  
David-03.pdf          Printversion2.pdf  
  
./Documents:  
Adobe  
  
./Documents/Adobe:  
Photoshop Cloud Associates  
  
./Documents/Adobe/Photoshop Cloud Associates:  
  
./Downloads:  
□
```





End command Ctrl+C

ls -F Desktop

cd + drag&drop

previous



current



cd -

cd Desktop

mkdir thesis

Navigating files and directories

General syntax of a shell command

Loops

Variable

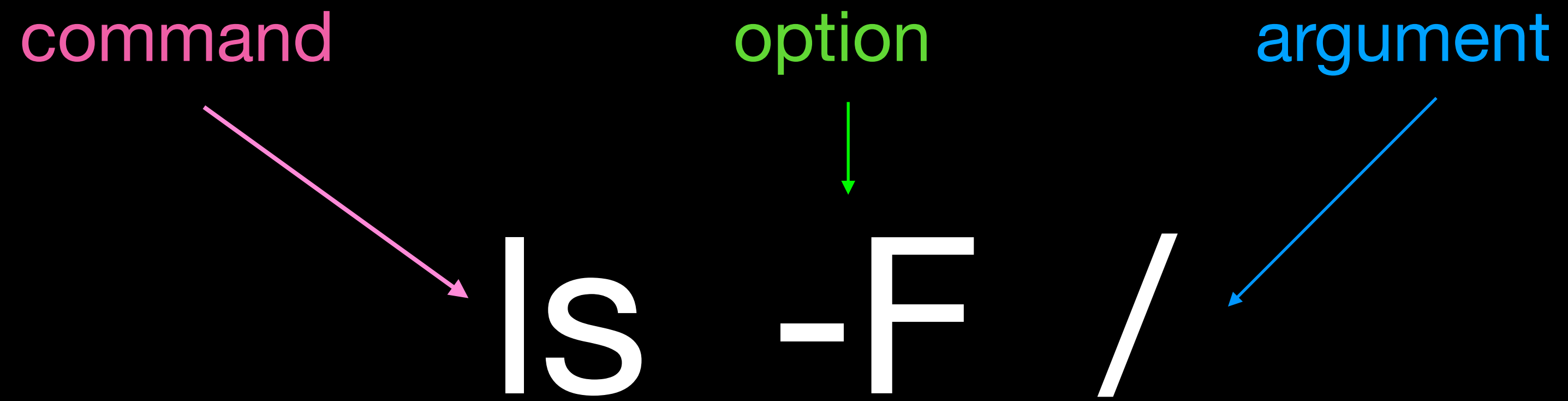
Packages

Scripts

Be creative

General syntax of a shell command

command option argument



ls -F /

Good names for files and directories

Good names for files and directories

Don't use spaces

Good names for files and directories

Don't use spaces

Don't begin the name with - (dash)

Good names for files and directories

Don't use spaces

Don't begin the name with - (dash)

Stick with letters, numbers, - (dash) and _ (underscore)



thesis — -zsh — 80x24

```
[berenice.serra@fhnw.ch@BA14AM55020 unix-shell-basics % cd /Users/berenice.serra@]
fhnw.ch/Desktop/unix-shell-basics/thesis
berenice.serra@fhnw.ch@BA14AM55020 thesis % nano draft.txt
```



thesis — nano draft.txt — 80x24

UW PICO 5.09

File: draft.txt

□

^G Get Help
^X Exit

^O WriteOut
^J Justify

^R Read File
^W Where is

^Y Prev Pg
^V Next Pg

^K Cut Text
^U UnCut Text

^C Cur Pos
^T To Spell



thesis — nano draft.txt — 80x24

UW PICO 5.09

File: draft.txt

Modified

Hello world,
we are learning UNIX

^G Get Help
^X Exit

^O WriteOut
^J Justify

^R Read File
^W Where is

^Y Prev Pg
^V Next Pg

^K Cut Text
^U UnCut Text

^C Cur Pos
^T To Spell



thesis — nano draft.txt — 80x24

UW PICO 5.09

File: draft.txt

Hello world,
we are learning UNIX

[Wrote 2 lines]

^G Get Help

^O WriteOut

^R Read File

^Y Prev Pg

^K Cut Text

^C Cur Pos

^X Exit

^J Justify

^W Where is

^V Next Pg

^U UnCut Text

^T To Spell

```
mv draft.txt hello.txt
```

Before Loops and Variable

Before Loops and Variable

cd – change directory

Before Loops and Variable

cd – change directory

ls – listing

Before Loops and Variable

cd – change directory

ls – listing

pwd – print working directory

Before Loops and Variable

cd – change directory

ls – listing

pwd – print working directory

mkdir – make directory

Before Loops and Variable

cd – change directory

ls – listing

pwd – print working directory

mkdir – make directory

nano – create a file

Before Loops and Variable

cd – change directory

ls – listing

pwd – print working directory

mkdir – make directory

nano – create a file

mv – moving or renaming a file or directory

Navigating files and directories

General syntax of a shell command

Loops

Variable

Packages

Scripts

Be creative

```
for thing in list_of_things
```

```
do
```

```
    command
```

```
done
```

```
for file in * ;
```

```
do
```

```
    mv "$file" "${file%.png}_ok.png"
```

```
done
```

Navigating files and directories

General syntax of a shell command

Loops

Variable

Packages

Scripts

Be creative

```
a=1;
```

```
for i in *;
```

```
do
```

```
mv "$i" "image_$a.png"
```

```
let a=a+1
```

```
done
```

Questions?