# Recap

- Seminar goals
- Meta cognition
  - Fail fast
  - PS: We also make mistakes
- Mu installation
- Terminal
  - Compatibility problems
  - Files and folders

# Windows vs. Mac vs. Linux vs. ...

- The real world is very very messy in terms of software
  - Operating systems
  - Programming languages
  - Hardware differences
  - Etc...
- We tried to shield you from most of it, but there was an error in the last assignment
  - Moving subfolders ( \* \ \* ) in Windows
- We apologise for the inconvenience, but it's still an important lesson:
  - Be careful when you work with software
- Good news: Python is operating system independent!

## Recap on file structure

```
22:01:03 jens@jens-06 ~/data tree
• Entering books
   ■ Mac: $ cd
                     1861 OriginNY F382.pdf
     books
                     books

    a study in scarlet.txt

   Windows: $
     cd books
                         · his last bow.txt
                        moby dick.txt

    Going back to

                     images
  data:

    adult-attractive-beautiful-871495.png

   Mac: $ cd .
                          architecture-building-clouds-374624-2.png
   Windows: $
                          beautiful-brunette-cute-774909.png
     cd ..
                          beaver
 Entering images
                              image_0001.jpg
 and beaver
                              image 0002.jpg
   ■ Mac: $ cd
                              image 0003.jpg
                              image 0004.jpg
                              image 0005.jpg
                              image_0006.jpg
                               image 0007.ipg
     images/beaver
   Windows: $ cd images\beaver

    Going back to data:

   ■ Mac: $ cd ../..
   ■ Windows: $ cd ..\..
```

#### **Absolute versus relative paths**

- Absolute paths does not require context
  - You are currently at 80.8265, -66.4529
  - I live at Rued Langgaardsvej 7, in Copenhagen Denmark
  - His phone number is +44 8138182732
- Relative paths requires context
  - You are in front of me
  - I live down the street and to the right
  - His phone number is the same as hers

pwd gives absolute paths, but you can describe paths both with absolute or relative paths

```
jens@jens-06 ~
21:59:27
                             bwa
/home/jens
21:59:28
           jens@jens-06 >-> cd data
          jens@jens-06
21:59:29
/home/jens/data
21:59:31
          jens@jens-06
                        ~/data
                                 cd ..
21:59:33
           jens@jens-06
/home/iens
21:59:34
           jens@jens-06
                        cd /home/jens/data
21:59:37
          jens@jens-06
                         ~/data
                                  bwa
/home/iens/data
          jens@jens-06 >~/data > cd data
21:59:38
cd: datei oder Verzeichnis nicht gefunden: data
              jens@jens-06 ~/data cd /home/jens
21:59:45
21:59:53
           jens@jens-06 ~
                            pwd
/home/jens
           jens@jens-06
 21:59:54
```

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### Recap on file structure

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22:01:03
                             jens@jens-06 > ~/data

    Entering books

   Mac: $ cd
                     1861 OriginNY F382.pdf
     books
                     books
   Windows: $
                         a study in scarlet.txt
     cd books
                         his last bow.txt

    moby dick.txt

 Going back to
                     images
  data:
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   Mac: $ cd ..
                          architecture-building-clouds-374624-2.png
   Windows: $
                          beautiful-brunette-cute-774909.png
     cd ..
                          beaver

    Entering images

                             image 0001.jpg
 and beaver
                              image 0002.jpg
   ■ Mac: $ cd
                             image 0003.jpg
                              image 0004.jpg
                              image 0005.jpg
                              image 0006.jpg
                              image 0007.jpg
     images/beaver
   Windows: $ cd images\beaver
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   ■ Mac: $ cd ../..
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pwd gives absolute paths, but you can describe paths both with absolute or relative paths

```
jens@jens-06
21:59:27
                              pwd
/home/jens
21:59:28
           jens@jens-06
                         cd data
21:59:29
           jens@jens-06
                         ~/data
/home/jens/data
21:59:31
           jens@jens-06
                         ~/data
                                  cd ..
21:59:33
           jens@jens-06
/home/jens
                         cd /home/jens/data
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                             pwd
/home/jens
           jens@jens-06
 21:59:54
```