

Managing directories from the command line

path - full name of a file or directory, e.g. /home/alinen/cs21, a unique location

Special directories:

.. ← the parent directory (two dots)

. ← the current directory (one dot)

/ ← the root directory

/home/<username> ← your home directory

~ ← your home directory

Exercise - UNIX commands

When was your home directory created? (`ls -l /home`)

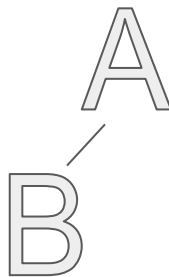
Create a directory structure like the one on the right

Rename B to B1 (`mv B B1`)

Copy B1 to B2 (`cp -r B1 B2`)

Remove a directory (careful with this!!) (`rm -r B1`)

Try: `ssh <username>@lab.cs.swarthmore.edu`



Exercise - UNIX commands

Answers are in **bold**. Supporting commands are in regular font.

oil[~]\$ mkdir A

oil[~]\$ cd A

oil[A]\$ pwd

/home/alinen/A

oil[A]\$ mkdir B

oil[A]\$ cd B

oil[B]\$ pwd

/home/alinen/A/B

oil[B]\$ cd ..

oil[A]\$ ls

B/

oil[A]\$ mv B B1

oil[A]\$ cp -r B1 B2

oil[A]\$ rm -r B1

rm: remove directory 'B1'? y

Exercise - UNIX commands (challenge)

When was your home directory created? (`ls -l /home`)

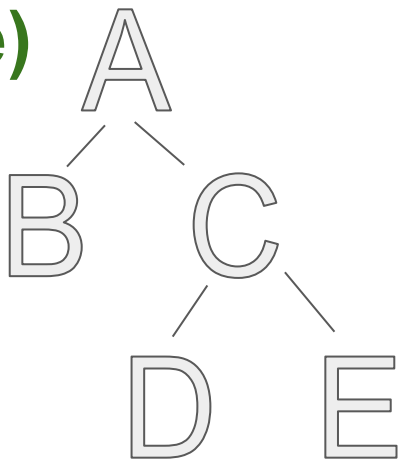
Create a directory structure like the one on the right (`mkdir`)

Rename D to C1 (`mv`)

Copy E to B (`cp`)

Remove all the directories you created (careful with this: `rm -r <dir> A`)

Try: `ssh <username>@lab.cs.swarthmore.edu`



Exercise - UNIX commands

This problem was challenging so don't worry if you found it confusing. Answers are in **bold**. Supporting commands are in regular font.

```
oil[~]$ pwd
/home/alinen
oil[~]$ mkdir A
oil[~]$ cd A
oil[A]$ pwd
/home/alinen/A
oil[A]$ mkdir B
oil[A]$ mkdir C
oil[A]$ ls
B/ C/
oil[A]$ tree -d /home/alinen/A
/home/alinen/A
├── B
└── C
```

```
oil[A]$ cd C
oil[C]$ mkdir D
oil[C]$ mkdir E
oil[C]$ ls
D/ E/
oil[C]$ tree -d /home/alinen/A
/home/alinen/A
├── B
└── C
    ├── D
    └── E
```

4 directories

```
oil[C]$ mv D C1
oil[C]$ ls
C1/ E/
oil[C]$ cp -r E /home/alinen/A/B
oil[C]$ tree -d /home/alinen/A
/home/alinen/A
├── B
│   ├── E
│   └── C
└── C
    ├── C1
    └── E
```

5 directories