

13. Elementary filters

- From the tarball `airnav.tar.gz`
- `grep`
 - `grep Belgium lands`
 - `grep belgium lands`
 - `grep -i belgium lands`
 - `grep -i niger`
 - `grep -i -w niger`
 - `grep -i -c niger`
 - `grep -i -v belgium`
 - `grep -i -w london */*`
 - `grep -i -w -l london */*`
- `dirname`, `basename`
 - `dirname CA/apt.txt`
 - `dirname /usr/bin/ls`
 - `basename CA/apt.txt`
 - `basename CA/apt.txt .txt`
- `awk`
 - `awk -F: '{print $2}' apt.txt`
 - `awk -F: '{print "ICAO", $1, $2}' apt.txt`
 - `awk -F: '{printf "ICAO %4s %20s\n", $1, $2}' apt.txt`
 - `awk -F: '{ if(! $1) printf "%20s\n", $2}' apt.txt`
 - `awk -F: '{ printf "%20s : %2d\n", $2, length($2);}' apt.txt`
 - `awk -F: '{ printf "%-20s: %2d\n", $2, length($2);}' apt.txt`
- `tr`
 - see `man tr ... !`
- `sort`
 - `sort apt.txt`
 - `sort -t: -k3,3 apt.txt`
 - `sort -t: -k 3,3n apt.txt`
- `head`, `tail`
 - `head -n`
 - `tail -n`
 - `tail -f` (= `-tail--follow=descriptor`)
 - `tail -F` (= `-tail--follow=name`)
- `xargs`
 - `xargs -nn`
 - `xargs -ln`
 - `echo a b c d e f g h I j | xargs -n2 echo | xargs -ll echo`
 - `xargs -I replace-str`

14. Advanced filters

- `grep -l -i london */apt.txt | awk -F/ '{print $1;}' \||
xargs -I {} -l 1 grep {} lands`
- `cat lands.txt | tr "[:lower:]" "[:upper:]" | sort -n`
- `cat */apt.txt | sort -t: -k7,7n | tail -5`
- `grep -l -i london */apt.txt \||
xargs -l1 -i{} sh -c "mail -v -s {} alain.ninane@uclouvain.be < {}"`

15. More filters

- Editors
 - Discussion about editors
 - `dd`, `ex`, `vi`, `emacs`, `nemacs`, `pico`
 - Stream editors
 - `sed -e '/brolle/d' < file_in > file_out`
 - `sed -e 's/regex1/exptr2/' < file_in > file_out`
 - `sed -e 's/regex1/exptr2/g' < file_in > file_out`
- `cat` vs `tac` (on modern linux system)
 - `file0`
 - `11 mai`
 - `12 mai`
 - `file1`
 - `5 mai`
 - `10 mai`
 - `cat file0 file1`
 - `cat file1 file0`
 - `cat file*`
 - `cat file[01]`
 - `cat file[10]`
 - `tac file*`
 - `tac file* | tac`