

Cheat sheet linux

Common commands

cd # Changing the current directory

cat # Copying a file to the standard output

chmod # Changes file permissions

cd # Copying files

echo # prints its argument to the shell

grep # Searches for text in a file

history # The history command and the up arrow on your keyboard can be used to repeat recently used commands

less # to view files

ls # Displays the contents of a directory

ls -a # Viewing file permissions

man [command] # access the manual of the command

mkdir # Creates a directory

mv # Renames or moves a file

pwd # Displays the current directory

rm # Deletes files

rmdir # Deletes directories

wc # Counts the words and lines in a file

***** # wildcard, which can represent zero characters, all single characters or any string.

Redirections

command > file # Redirecting a command's output to a file

command >> file # Redirecting a command's output to a file without overwriting the existing contents of the file

command1 | command 2 file # Redirecting the output of the first command as input to the second command

Key directories in the file system

```
/ # Root directory (base of file system)

/bin # Directory that contains executable programs

/home # Home directories of all users

/home/user/courses/molepiXX # Home directory of a single user
```

Screen sessions

```
screen -S session_name # starting a new screen session

pressing control + a followed by d # detach a session

screen -ls # seeing active sessions

screen -r session_name # Reconnecting to a session

screen -r

exit # To end a session, type 'exit' after reconnecting to the session
```

Loops

```
for filename in ERR026473 ERR026474 ERR026478 ERR026481

> do

> echo ftp://ftp.sra.ebi.ac.uk/"${filename}".fastq.gz

> done
```

When the shell sees the **keyword** for, it knows to repeat a command once for each item in a list. Each time the loop runs (called an **iteration**), an item in the list is assigned in sequence to the **variable**, and the commands inside the loop are executed, before moving on to the next item in the list.

Misc

- Hidden files and directories start with .

- **Tab completion** can reduce errors from mistyping and make work more efficient in the shell.



MMB-BioIT 2023