

Shell - short reference

Syntax

\$ program [-options] [arguments]

options:

- options change the behaviour of programs
- start with a minus (-)

arguments:

- provide information to the program that can be further processed by it

Commands

command	action
pwd	shows the path of the current directory
ls	lists all files and folders of a give path
cd <directory>	go to target directory
touch <filename>	creates or updates a file
head <filename>	shows the first ten lines of a file
tail <filename>	shows the last ten last files of a file
mv <file1> <file2>	moves file1 and saves it as file2
cp <file1> <file2>	copies files
rm <filename>	removes files
echo "Text"	displays a line of text
wc <filename>	counts lines, words, and characters of files
mkdir <foldername>	creates a folder
cat <filename>	displays the content of files

Help and manuals

command	action
<command> --help	shows help of command
<command> -h	shows help of command
man <command>	shows manual of command

Program redirection

The output of programs does not always have to be displayed in the Shell, but can be redirected to another program

operator	action	example
>	redirect the output to a file	ls > file.txt

operator	action	example
	redirect the output to another program	wc -l *.tsv sort -n

Shortcuts

shortcut	action
TAB	autocompletion
arrow up	gets to the previous command
ctrl + a	cursor jumps to start of line
ctrl + e	cursor jumps to end of line
ctrl + l	clears the shell window
ctrl + c	Cancels input or running process
ctrl + k	deletes the input after the cursor
ctrl + u	deletes the input in front of the cursor
ctrl + y	pastes the clipboard

for-loops

```
$ for NAME in "Jo" "Meg" "Beth" "Amy"
> do
>   echo $NAME
> done
```

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(Translated by Till Sauerwein)