1 Terminal

1.1 Introduction

```
> uname -mns
 Darwin imac.local i386
 Report bugs to <bug-coreutils@gnu.org>.
> uname -mns
 Darwin mbkp.local i386
> ssh anker.unibe.ch
 user@bender.unibe.ch's password:
> uname
 Linux
> uname -mon
 bender x86_64 GNU/Linux
> uname --help
 Usage: uname [OPTION]...
 Print certain system information. With no OPTION, same as -s.
   -a, --all print all information, in the following order,
                            except omit -p and -i if unknown:
   -s, --kernel-name print the kernel name
   -n, --nodename print the network node hostname
   -r, --kernel-release print the kernel release
   -v, --kernel-version print the kernel version
   -m, --machine print the machine hardware name
   -p, --processor print the processor type or "unknown"
   -i, --hardware-platform print the hardware platform or "unknown"
   -o, --operating-system print the operating system
       --help display this help and exit
       --version output version information and exit
1.2 Commands
    rm cami@bender:~/test$ ls
    todelete.txt
    cami@bender:~/test$ rm todelete.txt
    cami@bender:~/test$ ls
touch updates the access and modification times of each FILE to the current time.
```

```
cami@bender:~/test$ ls -1
-rw-r--r-- 1 cami cami 0 2009-08-25 20:29 date.txt
cami@bender:~/test$ touch date.txt
cami@bender:~/test$ ls -1
-rw-r--r-- 1 cami cami 0 2009-08-25 20:30 date.txt
```

```
~/test$ touch emptyfile.txt
     ~/test$ ls
     emptyfile.txt
man shows the manual pages of the given command.
     $ man <comman>
     $ man man
ls shows the content of the current working directory.
     documentation.aux
     documentation.log
     documentation.out
     documentation.pdf
     documentation.tex
     documentation.tex~
     Makefile
     test.tex
     $ 1s -R
     .:
     documentation.aux
     documentation.log
     documentation.out
     {\tt documentation.pdf}
     documentation.tex
     documentation.tex~
     folder
     Makefile
     test.tex
     ./folder:
     test.txt
{\tt mv}\, moves and renames files and directorys
     $ mv a b
     This command does the folloing:
     If there is a directory named b: \boldsymbol{a} will be moved into \boldsymbol{b}
     If there is a file named b and a isn't a directory: b will be overwritten by a
     If there isn't anything named b: \boldsymbol{a} is now named \boldsymbol{b}
```

It can be very useful to create a new empty file on the fly:

~/test\$ ls

find finds files matching a pattern

```
$ find . -name "*bla*" -print
```

This prints every file in the current working directory with the word "bla" in its name.

2 Documentation with Latex

2.1 Introduction

In this section we explain some LATEX details and different formatting commands. Whenever you need to lookup a certain symbol for LATEX we suggest you to use the online recognition tool detexify at http://detexify.kirelabs.org/.

2.2 Common Commands

2.2.1 Sectioning

Depening on the document class given in the very beginning of this file there exist several sectioning levels:

- 1. \section{NAME}
- 2. \subsection{NAME}
- 3. \subsubsection{NAME}
- 4. \paragraph{NAME}

To enforce LATeXto use a newline add a double slash \\ at the end of a line.

2.2.2 Schriftgrösse / -style

\rm A normaler text
\sl An italic text
\bf A bold text

\tiny A tiny ext

\scriptsize A very, very small text
\footnotesize A very small text
\small A small text
\large A big text

\Large A bigger text

\Large An even bigger text

A huge text

A enormous huge text

\emph An emphasized text

\underline An underlined text and here using the ulem-package

\texttt function goto(int a) ...

 A double unterstrichener text using the ulem-package

 A wavy unterstrichener text using the ulem-package

 \sout
 A crossed trough text using the ulem-package

\xout A/Aeleted/text/dsing/the/Meyn/packege

2.2.3 Notes

To create a footnote use the \footnote{YOUR NOTE} command¹. If you want to put a remark at side of a page use \marginpar.

This is a note at the border of the page.

2.2.4 Lists

There exist several list types in LATEX. You start a list by adding a \being{LISTTYPE} and end it with an \end{LISTTYPE}. A list item is added with a \item between the begin and end. LISTTYPE can be one of the following list:

- enumerate
- itemize
- description with \item[topic]

Note that you can nest lists if you want to.

- 1. e4
 - a) e4 e5
 - b) Lc4 d6
- 2. Lc4 d6

¹... as you can see here.

3 Ruby Programming