Cheatsheet Shell Commands

Alex Flückiger

$01~\mathrm{April}~2021$

Contents

| 1 | Basic Shell Commands | 1 |
|---|----------------------------|---|
| 2 | NLP-related Shell Commands | 2 |
| 3 | Regular Expressions | 2 |

1 Basic Shell Commands

| Shell Command | Explanation |
|--|--|
| cd filepath | change directory aka move into a different folder |
| ls -lh folder | list the files and folders in your current directory |
| pwd | show \mathbf{p} ath of \mathbf{w} orking \mathbf{d} irectory aka the folder that you're in right |
| | now |
| $	exttt{touch } fname$ | make a new file |
| mkdir $dirname$ | make a new directory aka a folder |
| ${\tt rm}\; fname$ | remove aka delete a file or directory |
| cp original-fname copied-fname | cop y a file or directory |
| mv original-fname new-fname | move or rename a file or directory |
| cat $fname$ | show all the contents of a file |
| more $fname$ | show snippet of a file that allows you to scroll through the entire |
| | thing |
| ${\tt head}\; fname$ | show the first 10 lines of a file (change number of lines by adding a |
| | $\mathrm{flag},\mathrm{e.g.}$ head -100) |
| ail fname | show the last 10 lines of a file (change number of lines by adding a |
| | flag, e.g. tail -100) |
| wc -w -l $fname$ | show how many words or lines in a file |
| man command | show the manual aka the documentation that tells you what a |
| | particular command does |
| echo | print text to the command line |
| <pre>grep "search term" fname or dirname</pre> | search for lines that include search term in file |
| wget url | get a file from the web |

This cheatsheet is based on this resource. Please also refer to this resource for a more in-dept explanation in prose. You should follow the guide for macOS and Unix even as a Windows user as we have installed a Unix environment.

1.1 Operators

• |: A pipe takes the output of one command and passes it as the input to another.

```
echo "pass this text to next command" | cat
```

• >: This operator redirects the output to a file. Example:

```
echo "first line of file1" > file1
```

• >>: This operator redirects and append the output to an *existing* file: Example: echo "line following existing content of file1" >> file1

2 NLP-related Shell Commands

coming soon!

3 Regular Expressions

3.1 Example Patterns

```
# alle Kleinbuchstaben
echo "Das ist ein Satz mit der Zahl 1000" | egrep --colour "[a-z]"

# alle Grossbuchstaben
echo "Das ist ein Satz mit der Zahl 1000" | egrep --colour "[A-Z]"

# das Wort "ist" und das nächste Wort
echo "Das ist ein Satz mit der Zahl 1000" | egrep --colour "ist [a-z]*"

# das Wort "Zahl" gefolgt von einer Ziffer
echo "Das ist ein Satz mit der Zahl 1000" | egrep --colour "Zahl [0-9]"

# das Wort "Zahl" gefolgt von beliebig vielen Ziffern
echo "Das ist ein Satz mit der Zahl 1000" | egrep --colour "Zahl [0-9]*"
```

3.2 Pattern Equivalence