IDEs

- Visual Studio Code (VSCode)
- Atom
- Sublime Text
- PyCharm
- Spyder
- Thonny
- IDLE

Terminal shortcuts

- Up arrow (scroll backward through your previously executed commands)
- Tab (autocomplete of file name or command)
- Ctrl + a (jump to the beginning)
- Ctrl + e (jump to the end)
- Ctrl + c (halt a running command)

Checking it out

- What machine am I working on?
  ```
  hostname
  ```
- What directory am I in?
  ```
  pwd
  ```
- Who am I?
  ```
  whoami
  ```
- Who else is working on this system?
  ```
  users
  ```
- Manual
  ```
  man [command]
  ```
- Clear the terminal
  ```
  clear
  ```

Files & directories

- Create a directory
  ```
  mkdir foo
  mkdir foo/baz
  ```

- Create an empty file
  ```
  touch bar
  ```
- Move files/directories
  ```
  mv bar foo
  ```
- Change directories
  ```
  cd foo
  cd ..
  cd .
  ```
- List all files in a directory
  ```
  ls
  ls -t
  ls -l -h
  ```
- Copy a file
  ```
  cp bar baz/bar2
  ```
- Copy a directory
  ```
  cp -R foo foobaz
  ```
- Remove a file
  ```
  rm bar
  ```
- Remove a directory
  ```
  rm -r foo
  ```

Text file search & edit

- Display first line
  ```
  head -1 foo.txt
  ```
- Display last line
  ```
  tail -1 foo.txt
  ```
- Redirect output to a file
  ```
  tail -1 foo.txt > last_line
  ```
- Print out text file content to terminal (standard output)
  ```
  cat last_line
  ```
- Combine (concatenate) files
  ```
  cat last_line first_line > lf
  ```
- Searching for patterns and print matches (global regular expression print)
  ```
  grep string foo.txt
  ```
- Display strings passed as arguments
  ```
  echo string
  ```
- Sort a file (lexicographically)
  ```
  sort foo.txt
  ```

- Pipe symbol (connects stdout of one process to stdin of the second process)

```
sort foo.txt | uniq
sort foo.txt | uniq -c | sort -n
```

Practice

- Create a directory called `Practicum`.
- Navigate to this directory and create a text file called `methods`.
- Go to https://www.wellformedness.com/courses/LING83800/ and copy to the clipboard all text starting with the word "SYNOPSIS" and ending with the word "ASSIGNMENTS".
- Go back to `methods`, paste text from clipboard, save and close.
- In the terminal, save the last line of `methods` to a new file, call it `last_line`. Make sure it worked by printing its content to standard output.
- Do the same for the first two lines and save them to a file `first_two_lines`.
- Concatenate `last_line` and `first_two_lines` and save the output to `three_lines`.
- Find all words in `three_lines` that start with the letter *l* by running this command (where `-o` tells `grep` to only output the matched parts of a matching line):

```
grep -o "\<l[a-zA-Z]*\>" three_lines
```

- Find and highlight the word *linguistics* in `three_lines`:

```
grep linguistics three_lines --color
```

- Add another line to `three_lines`:

```
echo "Adding one more occurrence of linguistics" >>
three_lines
```

Easter Eggs

```
python
import this
import antigravity
```