

Homework-5

16.3 (1)

- Use the python implementation from chapter 10 or 11
- Or use one of your own implementations that has multiple classes.

16.3 (2)

- Format:
 - First 25 lines: top-25 words + frequency (same as previous assignments)
 - After that: Class + Method names
 - **Note: the run script only checks the first 25 lines. You have to check by hand that class and method names are outputted correctly**

19.1

- Create config file where you declare which plugins to use
- Implement two versions of the plugins
- Plugins are pre-compiled
- Plugins are dynamically loaded into the program

19.1

```
1 #!/usr/bin/env python
2 import sys, ConfigParser, imp
3
4 def load_plugins():
5     config = ConfigParser.ConfigParser()
6     config.read("config.ini")
7     words_plugin = config.get("Plugins", "words")
8     frequencies_plugin = config.get("Plugins", "frequencies")
9     global tfwords, tffreqs
10    tfwords = imp.load_compiled('tfwords', words_plugin)
11    tffreqs = imp.load_compiled('tffreqs', frequencies_plugin)
12
13 load_plugins()
14 word_freqs = tffreqs.top25(tfwords.extract_words(sys.argv[1]))
15
16 for (w, c) in word_freqs:
17     print w, ' - ', c
```

config.ini:

```
1 [Plugins]
2 ;; Options: plugins/words1.pyc, plugins/words2.pyc
3 words = plugins/words1.pyc
4 ;; Options: plugins/frequencies1.pyc, plugins/frequencies2.pyc
5 frequencies = plugins/frequencies1.pyc
```

General comments

- Please try out the VM
- Follow the instructions in the assignment on the website.