Peer-review of assignment 4 for *INF3331-ThomasFossoy*

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1 Assignment Review

Operating system used: Xubuntu 14.04
Python version: 2.7.5

Assignment 4.1: Retrieve web page

Worked fine.

Assignment 4.2: Find link to location

In the assignment it says that the user should be able to type in place nname and get back a list of xml links if the search request is valid. This was not possible for us. To get a list of urls we had to enter name and data. Furthermore it was hard to understand at first what the "data" argument in the function *find_xml_links* is. It was also very hard at first to decipher which function to use to get back a list of xml links. An example written in comments would have been great. Something like this:

```
#Type liste = find_xml_data("Halden") to get a list of all links returned for this query.
```

Another option would be to write a wrapper function that allows us to type in function name and a place name as argument to the function and get back a list of links.

The function names were confusing. *find_xml_links* sounds like the name of a function that returns something containing links to urls containing xml data. The function name *find_xml_data* on the other hand sounds like a function that returns some sort of data inside an xml file. Perhaps *find_xml_data* should have been named *find_xml_links* and the original *find_xml_links* should have been renamed *find_xml_links_helper* or something similar to indicate that this is not a function to be used directly by the user. Putting this aside, your code does handle all search queries fine. Wildcards, norwegian characters, etc. Everything is perfect.

Assignment 4.3: Retrieve weather information

Great! I have nothing to add here. I liked that you had an example in the stringdocs of how to use the function *weather_update*. The code itself is very easy to read and understand, and your code handles errors from the user as well as url errors very well.

Assignment 4.4: Buffer all internet activity

Again, very well documented code. The code for the class lazy is easy to read and understand, and everything is well documented using comments and docstrings. The obselete buffer is working, and so is the buffer to disk. Perfect!

Assignment 4.5: Create weather forecast

Same as comments for Assignments 4.5. Nice work.

Assignment 4.6: Testing the code

Your tests were really, really good. They all worked perfectly, but you lacked pydoc tests for almost all functions. Because you had py.test for all functions, and the review rules doesn't state anything about missing pydoc tests I will not subtract any points for this. Good woork either way.

Assignment 4.7: Extreme places in Norway

Code is readable and does what is expected of it. Very good!

1.1 Advice and comments

In the future add some comments on how to run a function and what it does for the user, instead of just saying what the different arguments are and what the functionality is. In the function *find_xml_links* you wrote "*This function creates the different regex patterns and send them to the create_xml_link_lists function.*" You didn't say what those regex patterns are for though. You should have mentioned that those regex patterns are used by the function to find place names.

It would also be helpful if you added a comment above the code (or inside) saying which task or subtask the function solves. If the function is used in several tasks, then just type all the tasks it is used for. It's much easier for me or anyone else to review your code when we know where to look for the solutions of an exercise. It would also be nice if you used function names that say what the function *does*. For instance, the function name *weather_update* doesn't say anything about what the function does. Does it return weater data? Does it update the weather data stored in the buffered files? The function actually returns the weather forecast for a given place searched by the user. It should therefore have more fitting name, like *get_weater_forecast*.

2 Estimated points

- -2 points for some minor messy code parts.

Total **28 out of 30 points**