

## What I learned – Open Source Phase – Week 4

This week was stressful for me, because I wasn't able to solve issues, and to top that off I had homework from my school that put a bit of pressure as the due date was getting closer.

Through the week I looked into tons of projects, what I would do was first look into their issue list, then I would pick some and go into another project. I would do this for 5/6 projects and then I would go back to the issues I opened. Then I would download the project, set it up and try to replicate the issue. I did this for all of them, although I would encounter problems trying to set it up or replicating the issue, this would take me a lot of hours, and because of the time we had for this phase I would just drop the project and continue to the next one. I did this for the first days of the week, trying to find one that I least I could set it up and replicate the issue. I've learned there are plenty of tools to download packages, which some tend to be more simple than other ones, like npm or conda. As well now I distinguish when an OS project is well organized and documented.

I also learned about installing the latest versions from some package managers or libraries, as most of the time I would just use npm install, but this only downloads until the version which is enabled by the owners to be automatically downloaded, if you want the newest version of something you have to download the package and set it up by yourself, with the specified requirements and environmental variables.

I am going to add some points we were asked to give in our weekly assignment:

- These are the links to the issues I have worked on this week:
  - [Js-beautify](#) (PR open)
  - [Purescript-formatters](#) (worked on issue although it is difficult)
  - [stylelint](#) (PR open)
- How I contributed?
  - I came back to the js-beautify project as I had already worked on and I am familiar with the project. This time I fix an issue when the project tried to format CSS code, the bug happened whenever you would like to have a max number of extra lines between the code. For this I added an option where the user would type how many max lines does, he wants, and the project recognizes this option and respects it. I had to write code in JS and Python for this.
  - The second issue was from a library from a new language called PureScript, this issue was the one I struggle more with and even so I could not solve it, yet. For this I started to learn the new language, which turns out to be a functional programming language that compiles to JS but is based on the language Haskell. The features it has it that you can use it for algebraic data types, Row polymorphism and extensible records, you can assign types (string, numbers, etc. even dates) to variables. The issue occurred when you wanted to format a number larger than 10 numbers with the library called Purescript-formatters. While looking into it I could see that an error occurred although it was different the one I could create in [TryPureScript](#) (online playground) than the one the project generated in their tests, and that is because of the version, but at the end for my lack of knowledge in the language I wasn't able to solve it in my own, so I have asked for help.
  - The issue with stylelint was similar to the one from js-beautify, as it is as well a formatter for the CSS and alike languages. The issue consisted on creating an option for a function which was able to ignore predefined by the user functions, and this would be ignored by

the formatter. For this I had to look into the project to understand how it is structured and how I could use what they already have.

- Some positive and negatives results were:
  - Positive: I managed to open two PRs, summing five in total. Actually, I managed to open another one, although I am not mentioning that one, because I think it was too easy for it too be counted, although you can find it in the excel sheet, but for this I will try to open another one through the next week.
  - Negative: I lost a lot of time searching for issues, which ended up being stressful and annoying. I wasn't able to solve the PureScript issue, which I feel disappointed, but I liked learning from new languages.