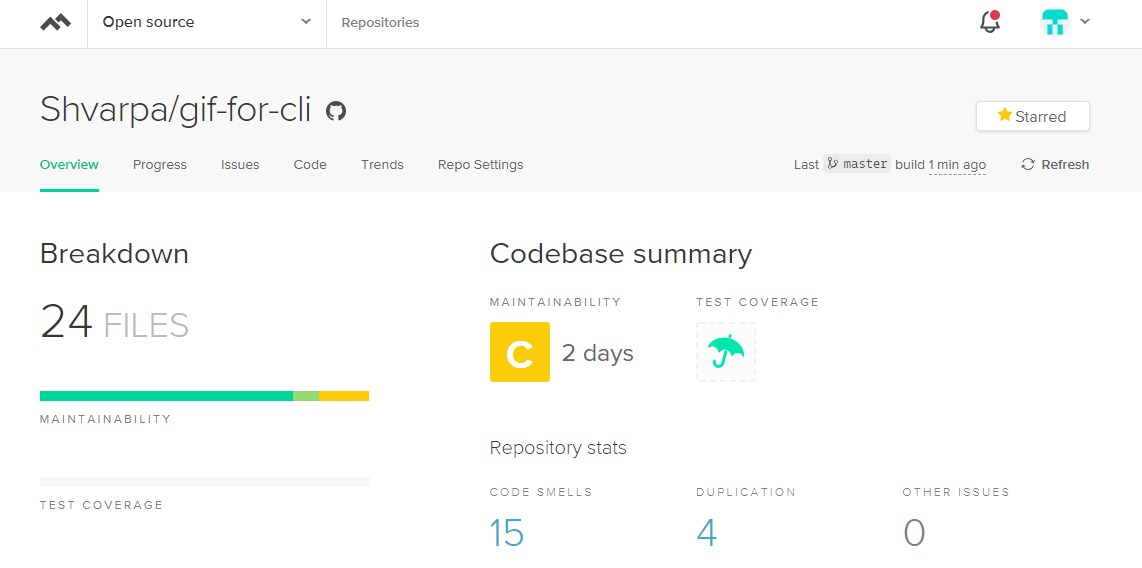
**ניהול פרויקט תוכנה – עבודת הגשה 6**

**מגישים:**  
ליאור וקנין  
פבל שוורצוב  
מורדי דבח

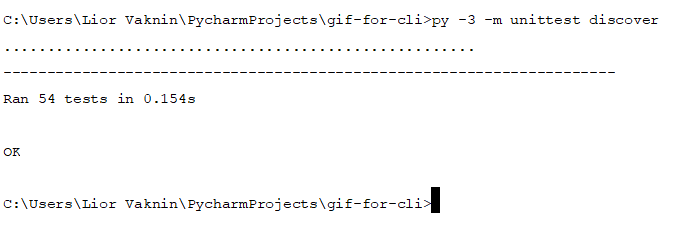
Forking the chosen project on GitHub:

A link to the forked repository: <https://github.com/Shvarpa/gif-for-cli>

Analyze the initial technical debt of the project:



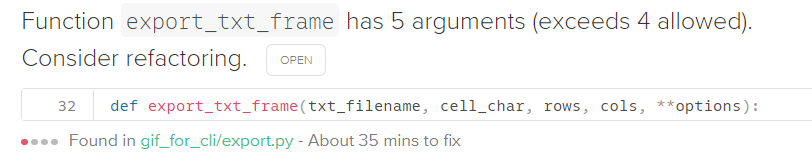
We can see that the initial technical debt of the project is two days, with 15 code smells.



We can see that at the beginning all the tests (54) passed.

**Refactoring:**

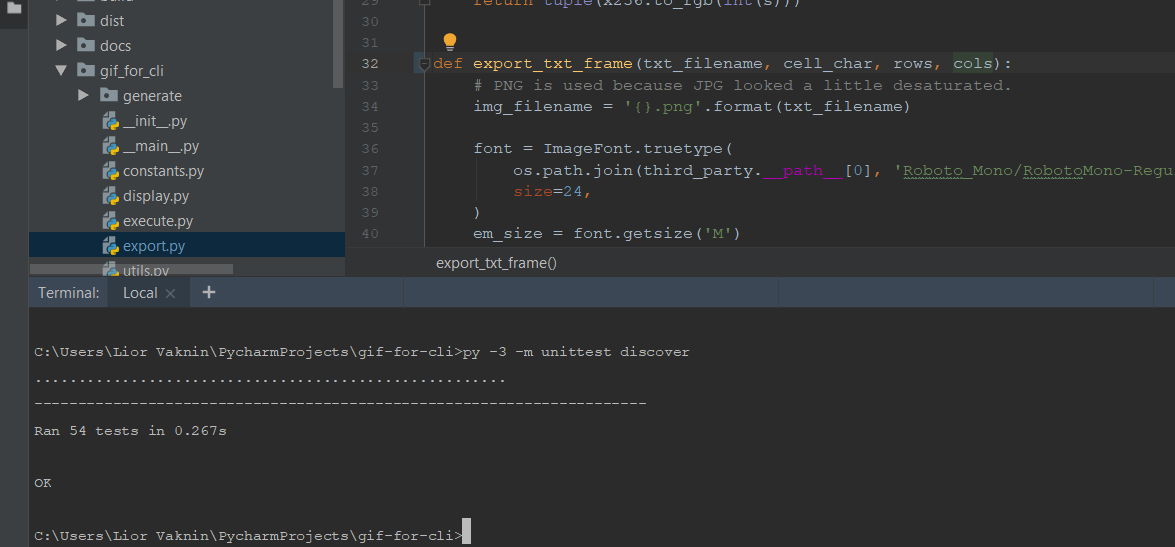
Code smell number one:



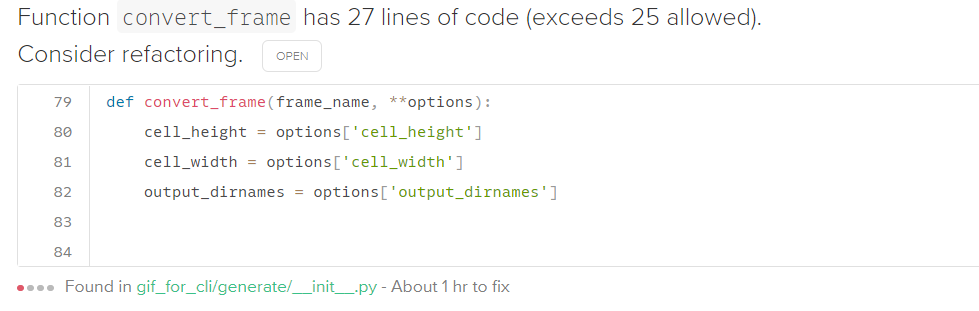
In this function there are five arguments but 4 allowed.



We can see that the fifth argument (\*\*options) is not used in this function. Therefore, we can delete it. All the tests passed.

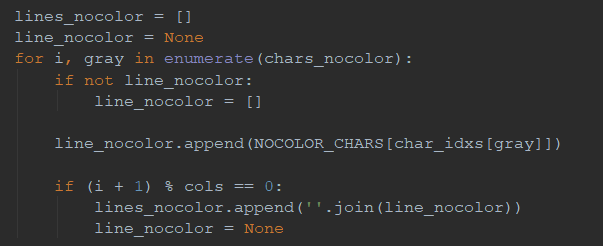


Code smell number 2:



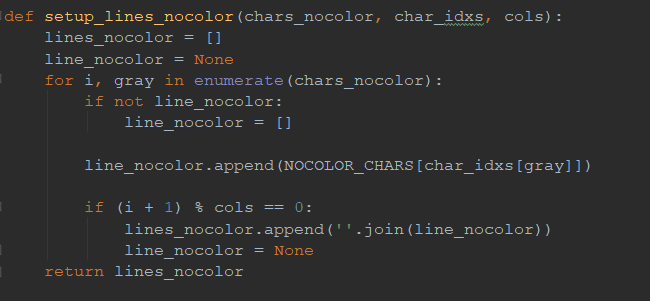
We can divide functionality of the function convert\_frame into several functions.

Before:



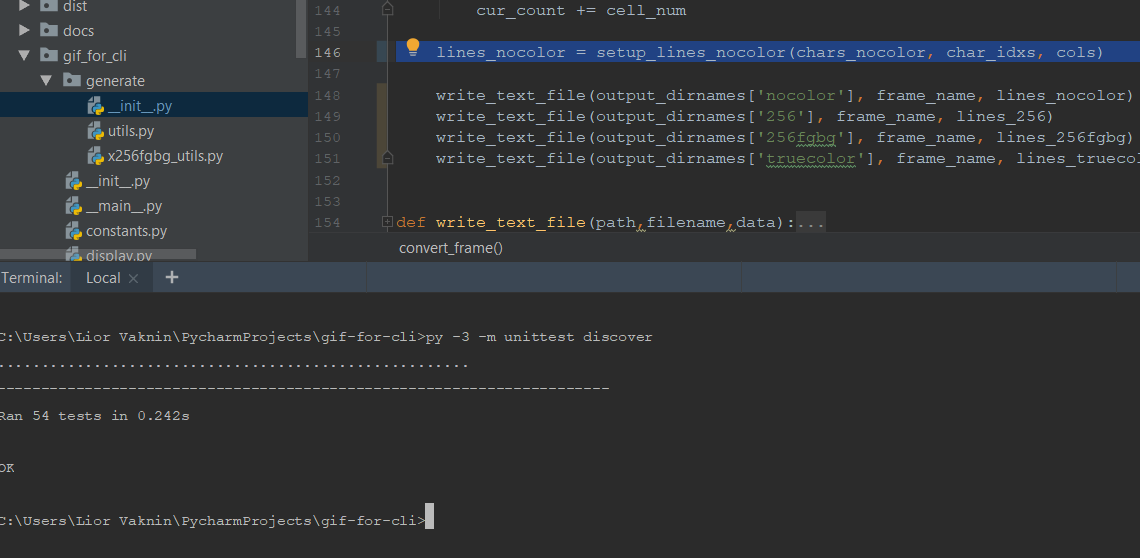
The setup of the list line\_nocolor was in the function convert\_frame. Divide this setup to function setup\_line\_nocolor.

After:

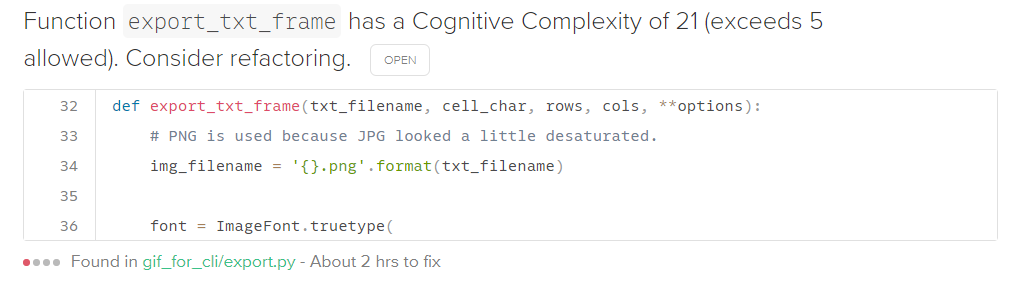




And all the tests passed.

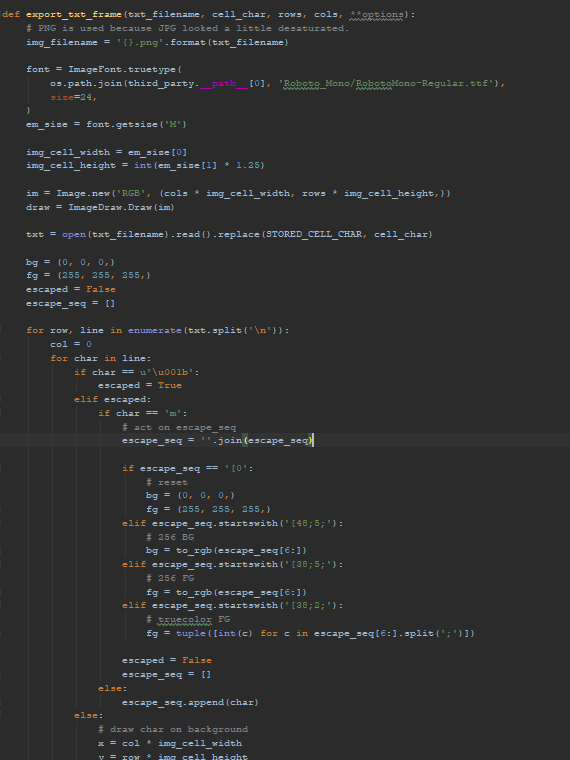


Code smell number 3:



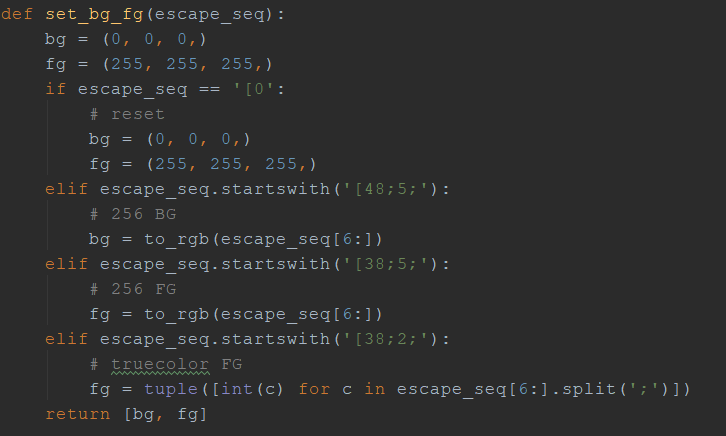
In this function, all the function’s functionalities are bound together in the same function. In this refactoring we will divide the function functionality to decrease the cognitive complexity.

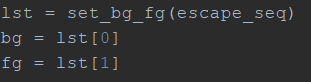
Before:



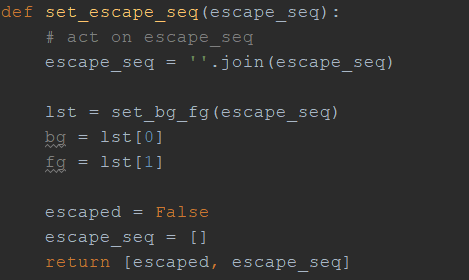
After:

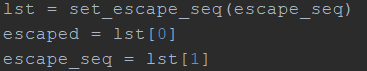
First step is to divide the setup of the bg and fg to separate function.



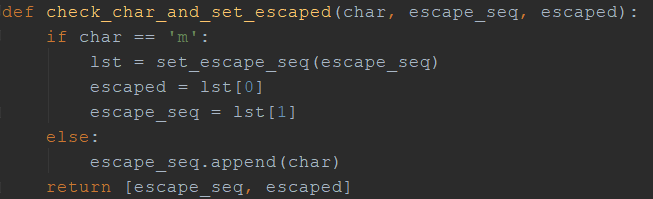


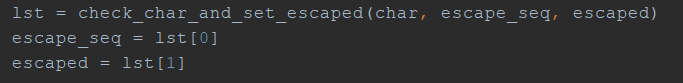
After that we will divide the setup of the escape\_seq to a different function set\_escape\_seq.





Next, we will divide the if else statement to separate function.





And we can see that we decreased the cognitive complexity of the function export\_txt\_frame.

Still all the tests passed:

