

DSC 430: Python Programming  
Assignment 0802: Plot Viewer

Please look at the DieRollExample on the D2L.

Write a class called **PlotViewer**. It will serve as both the view and the controller for the plot generator classes. The PlotViewer class will be able to register any plot generator.

```
>>pv = PlotViewer()
>>pv.registerPlotGenerator( SimplePlotGenerator() )
>>pv.generate()
Something happens
>>pv.registerPlotGenerator( RandomPlotGenerator() )
>>pv.generate()
Aaliyah Mosley, a abiding alabasterer, must acknowledge the
assuming assassin, Acheron Redwood.
>>pv.registerPlotGenerator( InteractivePlotGenerator() )
>>pv.generate()
Chose a hero's name from the following list:
...
```

A critical concern is how the generator classes handle input/output. When they are connected to a view/controller they must use the i/o of the view/controller. It may be simple text i/o. It may be a complicate GUI. It may be a cell phone app. It may be a webpage. The generator (model) should not know or care.

Ensure to provide a sufficient amount of documentation/comments in the code. Also write answers to these in a comment section at the end of the code file:

- how the PlotViewer registers the generators.
- how the PlotViewer sends the request to generate plots to the plot generator.
- how the PlotViewer is able to accept requests for user input from the plot generators.
- how the PlotViewer accepts and presents the plots created by the plot generators.

**Submission:** Submit the source file (.ipynb) and the exported html file (.html) to the D2L. Do not zip or archive the file. Your code must include comments at the top including your name, assignment number, and the honor statement, "I have not given or received any unauthorized assistance on this assignment." Also, each function must include a docstring.