

SCHOOL OF COMPUTING**ST1502 Data Visualisation
Self-Reflection (CA2)****Instructions:**

1. Submit this together with your other deliverables at Blackboard "Assignments->CA2" folder
2. Name your file "YourStudentID-YourName.docx"

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1 QUESTION 1: CHALLENGES - SELF-REFLECTION FOR CA2

Provide a brief reflection of the challenges you have faced in this assignment (CA1) with a comparison of those you faced in CA1. Did you manage to apply any learning experiences from the previous assignment to improve the way you did this assignment?

The main challenge I faced in this assignment was that it was much harder to craft the objectives required in the assignment. This was as I had to start from scratch again, first having to do some background research into what housing and property was like in Singapore with relation to the Housing and Development Board(HDB).

Another challenge I faced was deciding what type of graphs to plot in seaborn. This was as in seaborn, we were able to make much more complicated graphs, but in most cases, it was hard to read these types of graphs. An example would be a Kernel Density Graph(KDE) and the other graphs that applied it. This was as it was not really explained and it took a while, researching and learning online before I understood what the graph was telling me.

Using Seaborn also meant it was harder to decide what graphs I should use if I wanted to find out something, like comparing trends, across multiple variables. This was as a heatmap or a lineplot could both tell me similar information, but it was hard deciding when to use which.

Thankfully, I was able to apply some of the techniques I learned last assignment on how to craft objectives by braking them down into smaller simpler questions first. I also managed to slowly build my intuition for what kind of graphs to use in Seaborn by relating what I could tell from the graphs with the graphs I made back in CA1.

Lastly, I managed to clear more of my doubts with the lecturer as early as possible so as to progress more on my assignment.

2 QUESTION 2: ACHIEVEMENTS - SELF-REFLECTION FOR CA2

Provide a brief reflection of what you think you have personally achieved in this assignment. This is the place for you to impress upon your tutor on your competency in this area.

Personally I felt I managed to learn Pandas and Seaborn for this assignment. I felt that I managed to teach myself the necessary methods and functions in Pandas needed to manipulate the data so as to create the graphs needed.

I was able to clean the data effective, replace null values and format broken strings. I was also able to create new columns based on other column data, such as ratios and mapping towns to their regions in Singapore.

I also felt that the plots I made in Seaborn were more meaningful, such as the heatmaps, violinplots, KDE plots and lineplots. With these graphs, I was not only able to compare trends across one variable, I was even able to compare them across variables and their distributions. I felt that with these plots, it was much easier to see the trends within the data as well as compare them.

I also felt I managed to craft meaningful objectives. The objectives I crafted this time were actually from a new family and a government official's point of view. Through these objectives, it guided me to look at the data from a different point of view and analyze it further. As such, it allowed me to craft better insights and conclusions from the charts and eventually lead me to my final conclusions and insights.

3 QUESTION 3: EVALUATE YOUR CA2

What grade do you think you deserve for CA2? Justify the grade you gave yourself with reasons.

What grade do you think you deserve for CA2?

A/Distinction

State your justifications here

I think I managed to fulfill the requirements of the assignment with the 3 HDB datasets. I think I answered my objectives quite well and shown proper charts and plots that backed it up. However I think I could have improved on the analysis further by creating more charts on specific scenarios, and analyzing trends further. I could have also done more statistical analysis to further back up my conclusions and insights.

-- End of Self-Reflection --