A Report Template for Stat3622 DataViz Project

Your Name(s)
The University of Hong Kong

December 2016

Abstract

This is a template for writing a scientific report of PDF format in R markdown. You may start with the problem statement in one or two lines. To solve this problem, describe the data and visualization techniques under consideration. Then, summarize your results and interesting findings. The whole abstract is best written by a paragraph of four or five lines. You may directly modify this template to make your own report.

1 Introduction

Introduce the backgroud of the project, including: 1) what movitated you to choose this topic? why is it important or interesting to the general public, a particular field, or just yourself? 2) what has been done by others? and what is lacking so far? cite the references. 3) what is new in this project? and why this study is important? 4) the organization of this report (e.g. Section 2 is about data, Section 3 is about visualization methodology, etc). Thus, your may have at least four paragraphs in the first section.

2 Data

Describe the data used for this project, including: 1) what is unique about the data? 2) the data source, e.g. the webiste or the certain organization that hosts the data; 3) the data format and volume, and how you extracted/tranformed/loaded the data?

You may conduct some *initial* data analysis, including some simple statistics or very basic charts. They may help you describe the problem and define the scientific study through what you will propose in what follows.

3 Methodology

Describe the new methodology you propose through use of data visualization. You need to explain: 1) what is novel, i.e. not done by others; 2) what makes it interesting to the particular data under consideration? 3) what new results are expected to be found?

4 Results

You may either include R chunks to generate static, dynamic or interactive plots and display them directly along with the report, or refer to external site that hosts your Shiny app. In the later case, you may include the screenshot of your app, and explain what and how is being visualized.

Write about your interesting findings through DataViz justifications. This is the key part of your project!

5 Conclusion

Summarize your work with emphasis on your findings. List unsolved/extensive problems as future works.

6 Acknowledgement

This project is to fulfill a requirement of Stat3622 Data Visualization course in the University of Hong Kong. We would thank ... for ....

7 References

1. List the relavant articles if cited above
2. List the website(s) of the data, or tools