COMP5048 Visual Analytics 2018
Assignment 2 (Group Assignment)

Deadlines: (submit to Canvas and hard copy to School of Computer Science Reception mail box)

1) **Initial report (5 marks): week 8 Sep 26, Thursday 5pm**
2) **Presentation/demo (10 marks): week 10, Oct 17, Thursday 5pm**
   - each group has a 7 min. presentation in one of the weeks 10, 11, 12 (Oct 17, Oct 24, Oct 31) Thursday 6-9 pm, lecture room.
3) **Final report (15 marks): week 13 November 7, Thursday 5pm**

Choose **one** of the data sets below and produce **good visualisations** which are **useful for analysis** of the data.
More specifically:

- *Design* (i.e.*,* define *tasks,* determine what *analysis* and *visualisation* to use)

- *Implement* (i.e., determine what **tools/implementation** to use)

- *Evaluate* with a given data sets and associated analytic *tasks.*

For VAST challenges, see the specific task details in the links below.

You can use any software you like or implement your system using existing tools, but *you must accurately acknowledge all your sources*.

Data Sets:
1. VAST Challenge 2019: Mini Challenge 1 (https://vast-challenge.github.io/2019/MC1.html)
2. VAST Challenge 2019: Mini Challenge 2 (https://vast-challenge.github.io/2019/MC2.html)
3. World happiness report (https://www.kaggle.com/unsdsn/world-happiness)
4. Goodreads books (https://www.kaggle.com/jealousleopard/goodreadsbooks)
5. International football results (https://www.kaggle.com/martj42/international-football-results-from-1872-to-2017)
6. Trending YouTube videos (https://www.kaggle.com/datasnaek/youtube-new)
7. Top Spotify tracks (https://www.kaggle.com/nadintamer/top-spotify-tracks-of-2018)
8. Rain in Australia (https://www.kaggle.com/jsphyg/weather-dataset-rattle-package)
9. New York City Airbnb (https://www.kaggle.com/dgomonov/new-york-city-airbnb-open-data)
10. Suicide rates (https://www.kaggle.com/russellyates88/suicide-rates-overview-1985-to-2016)

Marking Criteria:
- Quality of your Solution (esp. visualisation) to support analytic tasks
- Quality of your Implementation
- Quality of your Report, Presentation and Demo

***Initial report** should be in the following format (min 5 pages)*:

1. Introduction
    1.1 Dataset
    1.2 Tasks
2. Design and Approaches
    2.1 Analysis
    2.2 Visualisation
3. Implementation
4. Evaluation
5. Planning
6. References

***Presentation** should be in the following format (max 10 slides)*:

1. Introduction
    1.1 Dataset
    1.2 Tasks
2. Design and Approaches
    2.1 Analysis
    2.2 Visualisation
3. Implementation
4. Evaluation
5. Progress and Planning

***Final report** should be in the following format (10-15 pages, excluding Appendix)*:

1. Introduction
    1.1 Data set and Tasks
    1.2 Aims and Contribution
2. Design
    2.1 Analysis
    2.2 Visualisation
3. Implementation
4. Evaluation
    4.1 Results
    4.2 Discussion
5. Conclusion
6. References
7. Appendix: Group meeting minutes *(0.5-1 page per week: week 6-12)*
8. Appendix:Codes