COMP5048 Visual Analytics 2020
Assignment 2: Group Assignment

Deadlines: (submit to Canvas, only one submission per group)

1. **Presentation (10 marks): week 9, Oct 28, WED 6pm, presentation: week 9-11**
2. **Final report (15 marks): week 12, Nov 19, THU 6pm**

Choose **one** data set below and produce ***good visualisations*** to support ***analytic tasks*** of the data.

Data Sets:

1. Popular Websites across the globe (https://www.kaggle.com/bpali26/popular-websites-across-the-globe)
2. Weather Madrid (https://www.kaggle.com/juliansimon/weather_madrid_lemd_1997_2015.csv)
3. Association of Tennis Professionals Matches (https://www.kaggle.com/gmadevs/atp-matches-dataset)
4. NBA Basketball Players Stats per Season (https://www.kaggle.com/jacobbaruch/basketball-players-stats-per-season-49-leagues)
5. Netflix Movies and TV Shows (https://www.kaggle.com/shivamb/netflix-shows)
6. Apple Store Mobile Strategy Games (https://www.kaggle.com/tristan581/17k-apple-app-store-strategy-games)
7. Board Game Geek Database (https://www.kaggle.com/seanthemalloy/board-game-geek-database)
8. World University Rankings (https://www.kaggle.com/mylesoneill/world-university-rankings?select=cwurData)
9. GoodReads Choice Awards (https://www.kaggle.com/somnambwl/book-awards)
10. Museum of Modern Art Collection in New York City (https://www.kaggle.com/momanyc/museum-collection?select=artists)
11. eBay Kleinanzeigen Used Cars Database (https://www.kaggle.com/abiyyuhrusin/ebay-kleinanzeigen-car)

Specifically:

1. ***Design*** (i.e., define tasks, determine analysis and visualisation)
2. ***Implement*** (i.e., data processing, determine tools/implementation to use)
3. ***Evaluation*** (i.e., evaluate your results with analytic tasks)
4. ***Animation/Demo of your system***
5. ***Each student should create at least one visualisation.***

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

Form Groups by Sep 20 Sunday 6pm

- We will announce final groups by **Week 5 Wed**

Week 9-11: presentation week 9-11, 6-9pm

- We will announce schedule by **Week 7**
- We will play each video and ask questions if any

- **You need to attend Webinar** at the week that your group is presenting
- You need to **peer-review** 20 groups **(submit on-line): 3 marks**

Presentation should be in the following format (*7-10 slides*): 5 mins

1. Introduction
   1.1 Data sets
   1.2 Tasks
2. Design and Approaches
   2.1 Analysis
   2.2 Visualisation
3. Implementation: tools you use or your system architecture etc
4. Evaluation
   4.1 Results
   4.2 Discussion
5. Planning: your plan for week 10-12

Submission Instructions: We will provide sample ppt slides

- Submit your slides as one PDF file to Canvas
- Submit your video presentation as one mp4 file to Canvas
- Submit animation/demo (if any) as a movie to Canvas

Marking Rubric: *10 marks*

- Quality of design: tasks, analysis and visualisation (2 marks)
- Quality of implementation (2.5 marks)
- Quality of results: visual analysis, storytelling (2.5 marks)
- Quality of oral presentation (2 marks)
- Quality of animation/demo (1 mark)

Final report **should be in the following format (*min 10 - max 15 pages*):**

1. Introduction
   1.1 Data sets
   1.2 Tasks
2. Design
   2.1 Analysis
   2.2 Visualisation
3. Implementation
4. Evaluation
   4.1 ***Results: Each member presents results with evaluation (1 page)***
   4.2 Discussion
5. Conclusion
6. References
7. Appendix:
   7.1 ***Weekly group meeting minutes (0.5-1 page per week: week 6-11)***
   7.2 ***Weekly personal reflection (0.5-1 page per week: week 6-11)***
   7.3 Codes: zip file

Marking Rubric: ***15 marks (group: 10 marks + individual: 5 marks)***

Group marks (10 marks):

- Quality of design: tasks, analysis and visualisation (1 marks)
- Quality of implementation (3 marks)
- Quality of results: visual analysis, storytelling (4 marks)
- Quality of writing (2 marks)

Individual marks (5 marks):

- Quality of individual visual analysis results and personal reflection

Submission Instructions:

- Submit your final report as one PDF to Canvas
- Submit movies (animation, demo) and source codes to Canvas