Coursework

INF4000 Data Visualisation 2024 - 2025

Coursework Overview

- Pass mark: 50
- 3000 word long with 10% allowance either way
 - If more or less, marks will be deducted
- Deadline: 21th January 2024, 2:00 PM
 - Submission at 2:00:01 PM will be treated as 1 day delay
 - 5% deduction for every day delayed
- Centred around a composite visualisation that you have created
 - All discussions will be around this visualisation
 - Composite visualisation is a visualisation that integrates multiple charts
 - For your coursework, you must integrate at least 4 charts
 - Charts belonging to the same broad topic

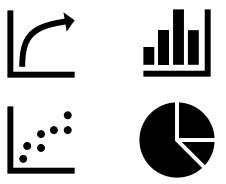
Report Format

This will be marked

See details in the coursework brief on blackboard

You are recommended to upload your code to GitHub (not marked) Page 1: course code, word count, reg number etc

Then: The composite visualisation (at least 4 charts)



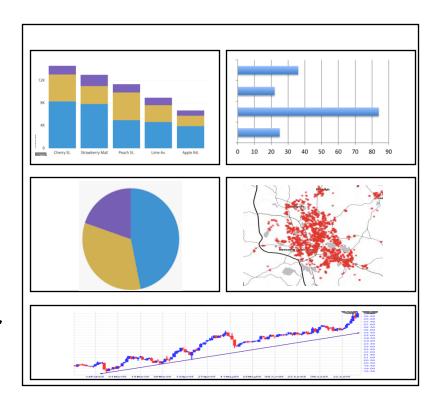
After this, you will need to write **5 sections**:

- 1 Knowledge Building
- 2 Theoretical Frameworks
- 3 Accessibility
- 4 Visualisation choice
- 5 Implications and Improvements

Reference

Composite visualisation

- Charts in the visualisation will belong to the same broad topic
 - Example of topics: economy, health, education, gender equality
- Charts will need to complement each other
 - So, do not use two different charts to show the same data (e.g., pie chart and bar chart to show the same distribution of GDP)
- Remember the value of annotations, labels, axes, legends etc.
- Present the visualisation right after the cover page



Datasets

- You must use the same dataset as your INF6027 assignment, selected from the approved data sources
 - World Bank Open Data
 - Our World in Data
 - Office for National Statistics
 - •
 - See appendix in either INF4000 or INF6027 coursework brief

Sections

All sections are equally important

- 1. Knowledge Building
- 2. Theoretical Frameworks
- 3. Accessibility
- 4. Visualisation Choice
- 5. Implications and Improvements

1. Knowledge Building

- Clearly state the topic and explain why the topic is important
- Explain what the visualisation is showing and what new knowledge it provides about the topic
- Appropriate literature sources
- Sufficient discussion

2. Theoretical Frameworks

- Clearly state the question to answer
- Detailed description for each of the six stages in the ASSERT framework
- Discussion using grammar of graphics (multiple occasions), explaining the different elements of grammar of graphics
- Appropriate literature sources academic references have more priority

3. Accessibility

- Describe what accessibility means in visualisation
- Discussion on whether the visualisation is accessible and what design choices you made helped or hindered accessibility
- Appropriate literature sources
- Sufficient discussion

4. Visualisation Choice

- Justify why you chose the type of visualisation
- Discuss possible alternatives (at least two items)
- Appropriate literature sources
- Sufficient discussion related to the goal of the visualisation

5. Implications and Improvements

- Discussion and reflection on visualisations in the topic you choose
- References to examples or discussions (news, literature)
- Propose improvements on the visualisation you created

Focus of each section

- Section 1 should cover the whole composite visualisation
 - 1. Knowledge Building
- Sections 2-5 should each mainly focus on a different visualisation
 - 2. Theoretical Frameworks
 - 3. Accessibility
 - 4. Visualisation Choice
 - 5. Implications and Improvements



Engage with the literature – all sections

- Knowledge Building engage with domain literature
- Other sections engage with relevant literature e.g. accessibility, visualisation choice, improvements, risks/ethical issues etc.
- Synthesis of the literature NOT summaries of papers

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In general, however, it is understood that smart cities make use of information and communication technology (ICT) extensively to help cities to build their competitive advantages (Yigitcanlar and Baum 2008; Caragliu et al. 2011), or that it is a conceptual model where urban development is achieved through the use of human, collective and technological capital (Angelidou 2014). The term smart city is, therefore, an umbrella concept that contains a number of subthemes such as smart urbanism, smart economy, sustainable and smart environment, smart technology, smart energy, smart mobility, smart health, and so on (Gudes et al. 2010; Cocchia 2014; Lara et al. 2016).

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Questions?