程序代写代做 CS编程辅导

DATA VISITALISATION 2

Semester 2, 2023

Version 1.0



Submission

Due date: Sunday of week 11, 15 October, 23:55. Submit a report in PDF format through a Turnitin link on Moodle The Covernage of the report must contain a URL to a public GitHub repository with a web page containing the visualisation.

Marking and Assignment Project Exam Help

This assignment is worth 25% of the final unit mark. A detailed marking rubric is included at the end of this document. A late penalty of 10% per day and a one-week cut off apply. Students are required to pass an interpreparately diving the stude is week (2 Sudents) in fail the interview hurdle will get 0 marks for the Data Visualisation 2 assignment.

IntroductionQQ: 749389476

Very similar to the Data Visualisation 1 assignment, you design and build an effective data visualisation for a specific domain. The major difference is that you will use the Vega-Lite visualisation library toctal phaps and data games CS.COM

The aim of the assignment is to apply the data visualisation techniques examined during the entire semester and demonstrate their use in an innovative context.

Requirements

The following requirements apply specifically for this Data Visualisation 2 assignment:

- The selected domain is clearly different from the domain of your Data Visualisation 1 visualisation.
- You use the Vega-Lite library for creating maps and diagrams. You may use other libraries
 for creating diagrams that are not possible with Vega-Lite, however, you must get
 approval from your tutor before using other libraries.
- The final result consists of a publicly accessible web page that is hosted on your own GitHub account. The JSON description of each Vega-Lite diagram or map must be easily accessible in the same GitHub repository and must be in a human-readable format. You may use the Pure.css library or any other JavaScript/CSS/HTML library or authoring software to create your web page.
- Your Vega-Lite visualisation must load reasonably fast. This implies that data files to download cannot be large. Aim at a total downloadable size of less than 1 megabyte. If

this limit is too low for your visualisation (for example, if you include video files or large zoomable raster images), then a discussion with your tutor is required before submission.

• Your web page actions at least me geograph m.p. Tireding make sense for your domain, your tutor can give an exemption for this requirement.

The following requirements from the Data Visualisation 1 assignment also apply for this assignment:

- Why? It shows the state of the
- What? It should be of any kind.
- Who? Design your Visualisation for the average Australian or Malaysian.
- The visualisation must turn data into something meaningful and provide insight that would otherwise be difficult to obtain without the visualisation.
- It must provide interactive explorations fill for es
- It needs to show some innovation. It does not have to be wholly original but cannot be a
 replica of a visualisation that already exists. It could be an innovative visualisation idiom,
 or an innovative exploration of an interesting dataset.
- It must demonst State us iffthe Me begign shot to the log for kelching and planning the design of your visualisation.
- It must demonstrate the use of the Munzer What/Why/How framework discussed in lectures for the visualisation. It must demonstrate the use of the Munzer What/Why/How framework discussed in lectures for the visualisation.
- It must apply design principles discussed throughout the unit, such as data-ink ratio, storytelling, layout, typography and visualisation idioms with appropriate use of marks and channel 0.0:749389476

Task Description and Schedule

- 1. By the end of Weeps://tutorcs.com
 - a. Choose a **domain** that you would like to explore.
 - b. Find relevant datasets that are publicly available.
 - c. Discuss your domain, design ideas, and datasets with your tutor.
 - d. Design your visualisation using the 5 Design Sheet Methodology.
- 2. **Visualisation**: Weeks 9 to 11:
 - a. The homework of Weeks 9 and 10 consist of creating a map and a diagram with Vega-Lite. You can include improved versions of the map and the diagram that you create for these homework assignments in this Data Visualisation 2 assignment. Important: Monash University policy does not allow submitting the same work for two assessments. Therefore, you need to clearly improve your homework map and diagram if you include them in this Data Visualisation 2 assignment.
 - b. Create a web page and embed your **Vega-Lite** diagrams and maps. Use CSS to style typography and design the layout of your web page. Make your visualisation publicly viewable as a **GitHub** page.
- 3. Write a concise **report with a maximum length of 1000 words** (excluding the cover sheet and the bibliographic list) covering the following (note the following requirements are identical to those for Data Visualisation 1):
 - a) A title page including the number of words and a **URL** of your visualisation.
 - b) A brief description of the domain, Why and Who.

- c) **What**: A brief description of the **data** (sources, authors, relevance, creation process, etc.).
- d) Why and low: Give a ptionale for mooting the specific digits and expan how they help the users to achieve their tasks. Include at least off screen capture of your entire visualisation, and a description of features that are special to your visualisation.
- e) **Design**: onale for your choices of
 - tructure the layout in columns and rows?
 reasons for selecting the specific colours of your
 did you consistently apply the colours to charts, text,

 - Typography: What are the reasons for selecting the specific typeface(s) and text layout?
 - o Storytelling How is the reader guided through the visualisation by using a mother beans ULOICS
- f) Bibliography/list of references.
- g) Appendix with scans or photos of the 5 Design Sheet Methodology outcome.

Assignment Project Exam Help

Expectations

Note the following is a verbatim copy from the Data Visualisation 1 assignment, except for the first paragraph about 1 and 1 tutores with 1 assignment.

Maps: The visualisation includes at least one map that uses an appropriate map projection and shows data with an appropriate $\sqrt{49389476}$

Format: The entire visualisation must be accessible through a single URL. The entire visualisation must be visible on a single web page that can be scrolled. There should be no buttons (or other web links) that swap the major section of the web page but you can use buttons to show and hide individual page elements.

Presentation not exploration: The goal of this assignment is to create a visualisation that communicates interesting information in an easily accessible and graphically engaging way using storytelling elements, layout principles, typography, and graphical design. The goal is not to create an expert tool for exploring and analysing a dataset.

Quality not quantity: Your visualisation will likely contain between 3 and 10 charts or diagrams that you create. However, there are no minimum or maximum numbers of charts. Instead, we are looking for carefully designed and annotated charts that – in combination with text and possibly icons and pictures – guide the user through an interesting story. Avoid pixelated or non-informative graphical elements. Complement your visualisation with concise, informative and grammatically correct text.

Interactivity: Integrate interactivity where it makes sense, but do not just add interactive elements for their own sake.

Copyright: You are encouraged to use icons and other simple graphical elements where appropriate. When using such elements, it is your responsibility to ensure you have the right to use them. Consult with your tutor if in doubt. You need to indicate the source and URL (if available online) in your report of any external element that you use, such as datasets, photos and sources of other information. There is no need to indicate the source and URL for simple icons (emojis, coats of arms, trademark icons, etc.).

Authorship: Because your visualisation is publicly accessible, you should indicate your authorship and the license under which you make your work accessible.

Plagiarism: We will follow up in an kind of academic miscond composition for the astimment, you cannot integrate non-trivial graphics (such as diagrams, charts, information graphics, etc.) created by others.

Report content: The little of the little of the visualisation to the visualisation topic or extra information about the little of the little

References in report and an include properly formatted references to the datasets, sources of information and process. Sealer as, etc.) that you include in your visualisation. Your text needs to include in-text citations, and your report needs to contain a bibliographic list. The referencing style in this course is APA 6th [link], which is the recommended style for undergraduate students in the bibliographic list, and every entry in the bibliographic list needs to be referenced in the text.

Figures in report: Figures seel granufication reference to the text with the figure C p number. Every figure needs to have a caption.

Marking Rubric Email: tutorcs@163.com

The mark will be an automatic 0 if one of the following conditions is met:

- The studen does not passithe interview assessment in Week 12.
- The domain of Visualisation 2 is not clearly different from the domain of Visualisation 1.
- The web page of provest title repository.

Note: Only maps and diagrams created with Vega-Lite will be marked (unless the tutor approved an exception). If the map of homework Week 9 and the diagram of Week 10 are included in this assignment, they will only be marked if they are substantially improved. If no map is included, the maximum mark for "Visualisation – Idioms and Complexity" is 5% instead of 10% (unless the tutor approved an exception). If the report does not include a working URL to your visualisation the Visualisation a, b and c (see rubric) are marked with 0. A detailed marking rubric is on the next page.

	HD (80–100)	D (70-79)	C (60–69)	P (50–59)	N (0–49)
5 Design Sheet 2%, 0 if created with digital tools.	All 5 stages completed, large variety of detailed sketches, creative and useful outcome.	tomp eted, large Variety of sketches, useful outcome.	All many stages of tombeted, some variety of sketches, some useful outcome.	variety of sketches, limited outcome.	Ariety of sketches, outcome not applicable.
Visualisation (a) Idioms and complexity 10%	A substantial of appropriate standard and custom-built Demonstrate high-level of understandir use of visual and channels	ber od Tuter cs	Standard idioms (e.g., bar chart, line graph). Visual marks and channels are applied correctly.	A small number of standard idioms (e.g., bar chart, line graph). Slightly incorrect use of visual marks and channels resulting in difficult to read visualisation.	Inappropriate idioms, small number of standard idioms, incomplete visualisation. Visual marks and channels not applied correctly (e.g., hue channel for ordered attribute).
Visualisation (b) Layout, colour, figure-ground 4%	Balanced and symmetric layout clearly structure in columns/rows vity good use of white space. All elements aligned with sight lines. Very clear visual hierarchy by usin consistent colour and figure-ground.	Balanced and symmetric layout mostly structured in colurn / Gws with use of white space. Most elements aligned with sight lines, Visual hierarchy lay sink cool rate figure-ground.	Somewhat balanced and symmetric layout not consistently. Structured in C S columns/rows. Arbitrary use of white space. Some elements aligned with light lined. Lorde visual hierarchy.	Layout not balanced or not symmetric, no apparent layout structure. Some elements aligned with sight lines. Limited visual hierarchy.	Layout not balanced and not symmetric, no apparent layout structure. Most elements randomly placed. No visual hierarchy by using color and four fround.
Visualisation (c) Typography, storytelling, annotations 5%	Advanced typ graphy (non-standard typeface matching the visualisation topic, very good readability of man text, appropriate in height, size, weight, colour, line length, alignment, and spacing of text elements). Classification guidance of the reader through visualisation. Extensive use of high-quality annotations on diagrams and text outside of diagrams.	Consistent Copy glaphy stinitary typeface and attention to typography). Guidance of ender through virual action Use of high-quality annotations on diagrams and text outside/of/diagrams.	Standard transparably with minol issues, bu still easy to read. Some guidance of reader through reader through diagrams and text outside of diagrams.	impact readability of text (e.g., overuse of highlighting, poor or inconsistent spacing of text, centred text blocks, etc.). Limited guidance of reader through visualisation. Limited number of annotations on diagrams and text outside of diagrams with some grammar or content issues.	Inconsistency in fonts, sizes and weights. Typography resulting in poor readability (e.g., inappropriate typeface, poor font size, weight, line lengths, etc.) No guidance of reader through visualisation. Small number of annotations on diagrams and text outside of diagrams with grammar or content issues.
Report (a) Content 2%	Why, who, what, how, design are appropriately and succinctly described.	Why, who, what, how, design are described with some minor issues.	Why, who, what, how, design are described with some major issues.	Why, who, what, how, design are partially described.	Substantial aspects of Why, who, what, how, design are missing.
Report (b) Report structure, writing, figures, and references 2%	Clear structure. Correct grammar. Writing is easy to follow and understand. Figures carefully designed, with numbered captions, and referenced in text. Correct and well-formatted references are included.	Clear structure. Correct grammar. Writing is mostly easy to follow and understand. Figures carefully designed, with numbered captions, and referenced in text. References are included with some minor format issues.	Mostly clear structure, some content is misaligned. Some grammar issues. Writing is not always easy to follow and understand. Figures without numbered captions or not referenced in text. References have major format issues.	Structure not clear, some content is misaligned. Grammar issues throughout. Writing is not easy to follow and understand. Figures without numbered captions or not referenced in text. Critical references are missing.	Confusing structure. Major grammar issues throughout. Writing is difficult to follow and understand. Lack of figures. No references included.

Responsible use of AI technologies

Generative AI tools to be set for a system to inthis wife in the system was a segmentative artificial intelligence (AI) to assist you in any way. Any use of generative AI must be appropriately acknowledged (see Learn HQ).

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