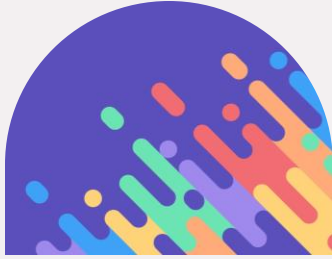




How slides gona go: tips and general timeline, the sections of each part, and the deliverables, questions at the end.



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QUESTIONS

Ask any questions about the coursework on the PollEv, and vote for the questions you want to hear the most.

2

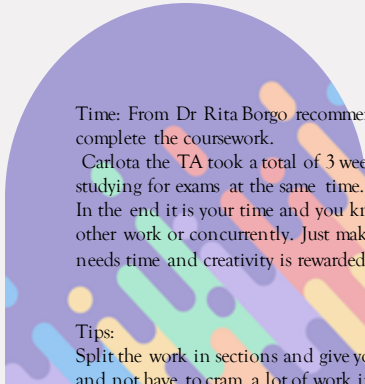
No questions are dumb questions

If anything during the presentation is not clear feel free to ask

Disclaimer: my work will not be the same as yours since my deliverables were not the same as yours.

Also ask the questions in the Padlet and we will create FAQ document for future years on top of answering your question.

TIMELINE AND GENERAL TIPS



Time: From Dr Rita Borgo recommendation she says it takes 15 days of work to complete the coursework.

Carlota the TA took a total of 3 weeks as she was working on the coursework and studying for exams at the same time.

In the end it is your time and you know how you work best, simultaneously with other work or concurrently. Just make sure you do not rush the work as creativity needs time and creativity is rewarded in this project.

Tips:

Split the work in sections and give yourself personal deadlines so you stay on top and not have to cram a lot of work in the last minute.

Use the SGTs and LGTs for questions on the coursework. We cannot give you the answers but we can help you understand better the assignment.

Remember: the coursework is **70%** of the final grade of the module.

DEADLINE: April 21st 4pm

Padding tip: Remember to add extra time for certain tasks as there can be certain problems that were unplanned for.

All important information is on Keats, use the recourses and read carefully.



Disclaimer this is the work I did in my project. And the deliverables were different so before you copy read the description of the coursework again.

I personally created a Miro board (online interactive whiteboard:

https://miro.com/app/board/uXjVO8p8Vv8=/?share_link_id=848924609218) The screenshots in the following slides are of the Miro Board. You do not need to create a Miro board, I personally used it to visualise my development of the project and to draft certain sections of the report. Miro is not a deliverable so do not waste your time if you do not think it will be useful for you.

ANALYTICS 20 marks

Come up with research questions related to one of the three topics given.

Research Questions:

Q1 Analyse the development of virus mutations over time. Are there detectable seasonal trends?

Q2 Analyse the impact of each variant of the virus. Have the new strands become more contagious and less deadly?

Q3 Analyse the development of the vaccine campaigns. How has each round of vaccines been received?

Question Breakdown 1

Break down the question

Analyse the development of virus mutations over time. Are there detectable seasonal trends?

B. data type required to answer question

- Quantitative continuous data of time
- Quantitative discrete data of the mutations that happened

data visualisations data set each assessed.

Then you find the data and assess the appropriateness and how it could be correlated

Tip: Breakdown your research questions into keywords and research the type of data that would answer those specific keywords.

To help you with the data type selection you can help yourself understand the question by breaking it down using keywords.

Talk through my example of breakdown:

analyse : different ways to analyse: quantitatively, ordinally

. Development: mutation spread, reoccurrence.

Seasonal: time aspect in data.

Remember: your topics are :

- Cost of living overtime + trends
- Social media data analysis and its influence on shopping + trends
- Sport data : Formula 1 teams + trends

Don't know which to choose?

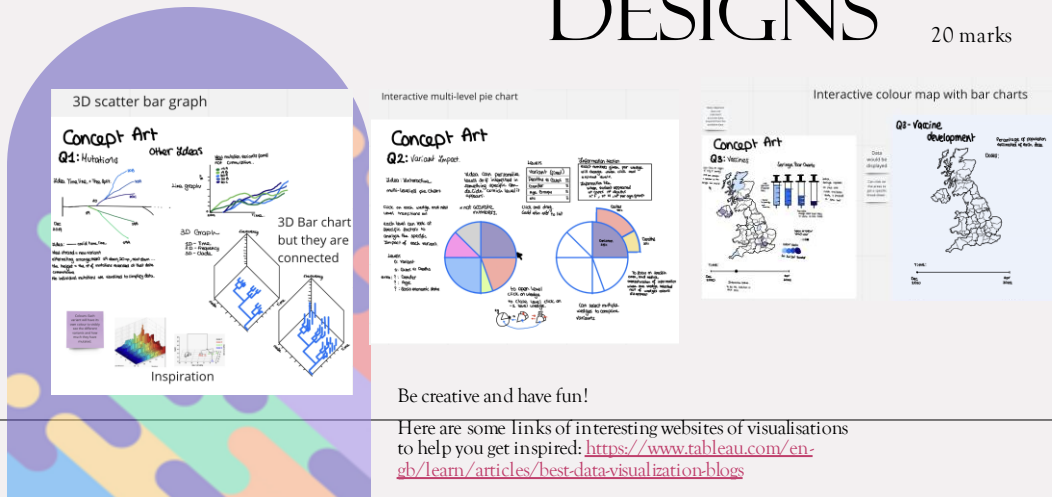
Some tips to help you choose:

- Research: news articles, research papers, blogs etc. Learn a little more about each topic before deciding
- Search for existing visualisations in the topic. How do they do it? Could it be improved?
- Read and search through datasets to give you more ideas and see which topic

seems more interesting to you.

DESIGNS

20 marks



6

Be creative! Have fun! Do not limit yourself to the minimum of 3 visualisations.

What I did:

I did not limit myself to the minimum required of 3 visualisations, I did several sketches for my first research questions as a brainstorming technique. I also created a short animation of what one of the visualisations would look like if implemented.

Do not:

Limit yourself to what you think you can implement later. This section rewards creativity so create prototypes of anything you like that will answer the questions. Examples : Personally was new to Java Script and D3 when doing the coursework and so the animation I created with the slider and the change in colours was possibly something that would be very hard to implement. Also the 3D bar chart was going to be ideally rotatable, so you can see it from different angles and have further interaction on top of that.

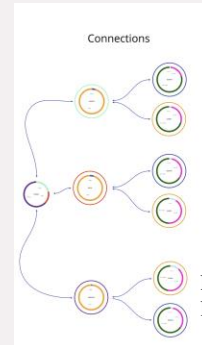
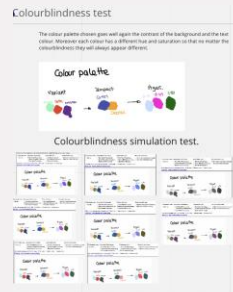
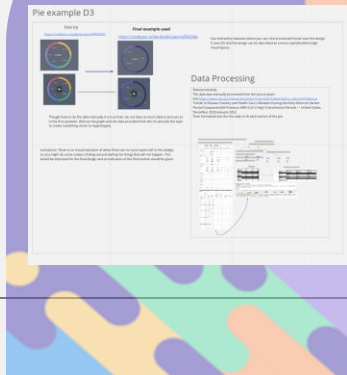
Also you do not need to reinvent the wheel, the designs of your prototype can be simple and effective. As long as you can justify in the report the reasoning behind your design it can be as simple or as complex as you please.

Remember to make your designs accessible to by choosing :
Colours, sizes, scales, labels, channels etc. that will accommodate all users.

IMPLEMENTATION

30 marks

My implementation used a D3 example that I then edited and made it my own.



Remember:
It must be interactive

Links to D3 examples to help you create and use as examples: <https://d3js.org/>
<https://d3-graph-gallery.com/>

7

Personally the longest section for me, since I was new to D3 and Javascript. Important to use the tutorials to help you learn the code and the basics to then implement in the coursework. Created a design that would be simple and the colour palette would adjust to all colour blindness on top of adding labels and not relying on colour only to display information.

Use examples and libraries to inspire you, it is much easier to change a large quantity of aspects from an example than starting from scratch. Personally I found starting from scratch daunting and so I found an example I liked and changed certain design aspects of the visualisation and added the specific data to make it my own. But when using examples make sure to ALWAYS link the recourses in your code, appendix etc. Otherwise it can be considered as plagiarism.



Disclaimer the deliverables I gave had different requirements. Before copying me read the guide provided in keats.

An overview of the report I created and the Appendix. Remember: 2-3 pages report (either 1 page A0 poster or 2-3 shorter page) in pdf format. Unlimited pages for references and images.



REPORT

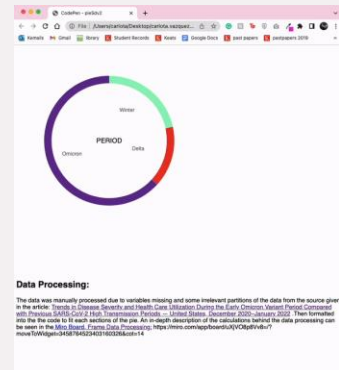
A link to the VGTC conference two-column format for overleaf:

<https://www.overleaf.com/latex/templates/ieee-tvcg-conference-style-template/htqfqtkvcqf>

<https://tc.computer.org/vgvc/publications/conference/>

Remember the word limit in certain sections. This will help you keep your work balanced. Example: if you write 300 words for one design and only 100 words for another it is possible you are missing certain aspects of the latter design. Balance the report so all sections are well explained and fewer marks are lost. Be concise and clear.

The appendixes are the small images and have no limit of number of pages.
My project had a limit of 2 pages including references.
All my figures had legends



CODE OF VISUALISATION

This will have to be a Webstorm application in the zip file. You will have to implement D3 webapp and it MUST be interactive.

Tip: You can code first on a different IDE if you prefer and then move it to Webstorm, just make sure to test that when you run the code it works.

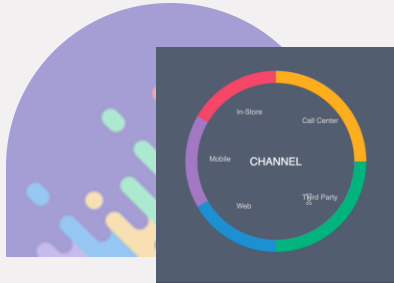
10

The IDE I used first was called code pen, then I moved it to webstorm and added the bottom description with links to my miro.

You can add prototypes and project development or explanations to your website, those will just be marked as extra.

Webapp requirements:

- Visualisation (s), multiple related simple or one sophisticated
- Interactive aspect
- Description of how data processed.



As part of the video demonstration, I created these gif to show how the visualisation can be used.

For the video I created a Microsoft powerpoint slide which I recorded a video on top.



FINAL DESIGN DEMOS

Remember: a 2-3 min (maximum) video demo presentation of your implemented visualization in action.

Tip: Since the video can only be maximum 3 minutes try to limit it and create three slides/ sections to the video.

3/7/2023

11

You do not have to use Microsoft PowerPoint, as long as the video is an MP4 file and lasts 3 minutes or less demonstrating your visualisation you can feel free to use any tools to create the video.

My presentation was a total of 3 slides, 1 slide per minute.



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