Data Visualization

ASSIGNMENTS

Tea Tušar, Data Science and Scientific Computing

Assignments

In order to complete the course, each student (or a small group of students) needs to complete an assignment

The assignment consists of three tasks

- Visualization of provided data
- Visualization of chosen data
- Presenting the visualizations in class

Deadline for providing the visualizations and presentation slides: Monday, December 17

Send by email to: tea.tusar@ijs.si (subject: VIZ group No. X)

Presentations in class: Wednesday, December 19

Visualization of provided data

Multivariate data prepared by the lecturer (no context or additional information provided)

Download from Moodle the data corresponding to your group No., then

- Analyze and visualize the multivariate data
- Answer the question: What properties does the data have?

Use any software/tool

Do not copy from the other groups!

3

Visualization of chosen data

Choose a topic you are interested in (see also the collection of public data sources on Moodle)

Find the data and two or three interesting questions about the topic

Produce visualizations of medium difficulty that answer those questions

Use any software/tool

Showcase what you have learned (appropriate choice of representation and color, avoid lying, maximize accessibility, minimize clutter, use annotation, cite the source of data, …)

4

Examples of topics

[Space] How long does it take for Jovian satellites to orbit Jupiter? What are their sizes (and other properties)?

[Music] How have the lyrics and/or duration of songs of your favorite singer evolved through time?

[Politics] What were the durations of Italian governments? How have the ruling parties changed in time?

[Sports] Which are the most successful teams (or countries) in Champions League? Which have most often lost in the final?

[Movies] How often is an Italian dubbing actor associated with the same original actor? Which dubbing actors have been associated to the largest number of different original actors?

Something from your studies (could be a chart of new data or a makeover of an existing chart)

5

Presentation

Structure of the presentation

- Visualizations and findings about the provided data
- Presentation of the chosen topic and the associated questions
- Visualizations of the chosen data
- Individual contributions of the students in the group

The presentation should not take more than 10 minutes

We will discuss the visualizations after each presentation

6

Groups

ID	Students in the group
1	Diego Baldassar, Nicola Gennaro
2	Marco Zullich, Nicole Orzan
3	Francesco Guzzi, Niky Bruchon, Erica Salvato
4	Andrea Colavitto, Nicola Barbini
5	Marinilson Soares, Francesco Franchina
6	Ginevra Carbone, Domagoj Korais, Alex Dagri
7	

7