Exercise 2 – InfoVis Project Milestone 1

Hint: Submitting exercise sheets and participating in exercise sessions is voluntary and not a prerequisite to write the final exam. However, we encourage your participation since this is a good preparation for the exam (we will ask questions about lecture and tutorial content).

The overall task of the InfoVis project is to build a visualization tool. This involves the task of looking for, collecting, analyzing, and visualizing data. As a framework, we propose D3.js (this is where you can ask for support).
For this project, the general requirements are:

- Design an appealing GUI (counterbalance Tufte and Holmes…)
- Design feasible interaction and achieve a good usability
- Reveal interesting insights, phenomena, patterns, trends, …
- Adequate submissions to **every** milestone and presentation of the milestones in the tutorial sessions
- Preparation & presentation of a short demo at the final presentation session

You can either work on the project individually or in teams of two. The (size of the) data base and the requirements vary depending on the team size: For a group submission, we expect a more extensive analysis and presentation (e.g., by using more data sources and data as input, building an extended interface, …).

If you successfully complete all tasks related to the (group) project, you may attain a bonus of up to 10% of the points in the written exam (only applicable to improve your grade, i.e., you cannot pass the exam with these additional points). This bonus is only valid for the main and makeup exams related to the current term. (For binding conditions, please consider the German text on our website.)

The goals for this first milestone (November 15, 2017) are:

- Get familiar with the datasets
- Get familiar with D3.js (http://d3js.org/)
- Build a team or decide to work on your own
- Think of interesting visualization concepts
- Think of potential research questions

Task 1: Project

You have the opportunity to work on two different data sets:
a) OpenGov Portal Munich – Tourism, Leisure, Sports, Culture:
   https://www.opengov-muenchen.de/group/kultur-freizeit-sport-tourismus (smaller data set, **individual project**)
b) OpenGov Portal Munich – Extensive Data Set: https://www.opengov-muenchen.de/dataset, https://www.opengov-muenchen.de/dataset?tags=Indikatorenatlas (**team project**)

Please decide first whether you (a) want to complete the project individually or (b) in a team of two. Please have a look at the data sets and consider in detail, which task you would prefer.

For your submission, please create a folder "task1", which includes a text file that states your decision and the matriculation numbers and names of your team members.

Task 2: Project Draft and Project Plan

Familiarize yourself (or in your group) with the data and the software framework to be used.
a) Have a look at the selected database and D3.js (http://d3js.org). Which 5 (technical / conceptual) challenges do you expect?
b) Conduct a brainstorming session (in your group) to identify the most important goals and functions of your intended visualization. Which interesting aspects can you visualized based on the data provided? Name at least 5 interesting aspects!
c) Create a first project draft which illustrates your intended visualization project. Please include also the interactive components / aspects in your description and discuss different perspectives. Describe, which aspects of the dataset you would like to examine.

For your submission, please create a folder "task2", which includes your solution as a PDF file. The illustration can be a PDF, JPEG, or PNG file. In addition, please prepare and submit a PowerPoint (PPTX) presentation along with these files. The idea is that at least one of the team members can present your idea within 3-5 minutes during the tutorial session.
Important: If you work in a team of two, please create a submission group in UniworX and let only one team member submit your solution.

Submission

- Please submit your solution as a ZIP file until November 15, 2017, 23:59 via UniWorX (https://uniworx.ifi.lmu.de/).
- During the tutorial session, each project will be presented. This is mandatory in case you plan to attain bonus points!
- In case of questions, please discuss open issues with your fellow students, use our Slack channel, or ask your tutorial instructors.

Good luck!

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