

Assignment 5

Group Project: Interactivity

Concept

Due Wednesday, June 17th, 23:59 (Paderborn time)

The topic of the mini group project is up to date: COVID-19.

The following websites offer highly topical datasets, you should use for your project:

Data Source	Title	URL
Our World in Data (University of Oxford)	Coronavirus Pandemic	https://ourworldindata.org/coronavirus
Johns Hopkins University	COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University	https://github.com/CSSEGISandData/COVID-19
Center of Disease Control and Prevention	Provisional COVID-19 Death Counts by Week Ending Date and State / Deaths involving coronavirus disease 2019 (COVID-19), pneumonia, and influenza reported to NCHS by week ending date and by state	https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-Week-Ending-D/r8kw-7aab

Your task is to do some preparation work and to submit a concept.

- Check the datasets and extract the information you want to show in your visualization.
- Try to find additional datasets.
- Define which tasks should be performable with the help of your final visualization.
- Figure out which type(s) of visualization(s) you want to create and how the design/mapping will look like.
- Specify which interaction tasks and which interaction techniques you want to use. And how you will combine them.

Afterwards you have to submit a short concept paper. This concept paper has to include:

- Dataset characteristics
 - User and Task
 - Visualization technique(s)
 - Interaction
- Submit a *.pdf-file.
 - Keep it short but add all needed information.
 - The concept will be used as basis for the grading of the final project.
 - A bad and/or too short concept has a bad influence.
 - Use technical terms from the lecture.

Some further description and hints for the concept and for the final mini project submission:

Datasets:

Figure out which data you will need from the given datasets and from additional datasets for your final mini project and specify it in your concept. You do not have to use all of the given data.

Try to combine datasets. There are multiple datasets given for this assignment. You can combine them and/or try to find additional datasets. For each dataset give

- a short overview over the included data,
- the reason you want to use this dataset,
- the data source,
- the data characteristics (data type, dimension(s), Brodlied model, ...)
- and additional information you assess as important to tell us.

User and Task:

Who is the potential user of your visualization? Who will be interested in your visualization?

What task will the user achieve with your visualization?

Specific users and sophisticated tasks will lead to more points for the final grade than easy and obvious ones. To answer a sophisticated task, you probably have to use multiple datasets.

Visualization technique(s):

You can use one or multiple visualization techniques. In case you use multiple visualization techniques, you have to make sure that they are combined in just one application. In case of submitting multiple visualizations not connected with each other via interaction, your whole solution will not be evaluated at all. Mention in your concept how you want to combine different visualization techniques.

Online and in print media show many different visualizations for the given kind of dataset. Do not just copy one of them. Try to create a visualization, that fits best to the data you selected, and the task(s) the potential user wants to achieve. Just because a visualization is published somewhere it does not mean, that it is the best one in general or the best one for your package of data, user(s) and task(s).

Interaction:

The topic of this assignment is interaction. Make sure you make use of interaction. Use interaction to help the user to achieve the task(s). Describe the interaction that will be integrated to your visualization. How does this interaction technique help the user achieve the desired task?

Submit your concept as *.pdf-file. Since it is a group work, you just have to submit once per group.