

Task 2: Dashboard

General information

This task accounts for 25% of the final qualification. It should be submitted on time on the corresponding task on Campus Virtual. The submission should only consist of one zipped file with the necessary content for the task with the name DashboardTaskMember1Member2 Member3Member4.zip

The task is to be made in groups of 3 or 4 people preferably. Otherwise, please talk previously to the professor.

You can use the provided dataset or any other previously negotiated with the professor. You shall mention the source of the dataset and any re-used code or code that has served as inspiration.

Goal

This task is related to perception, tasks and users. In this task you are expected to put into practice the perception principles and the HCI guidelines. You will also practice with d3 charts and layout.

The graphic may perfectly be static, but if desired, you may include interaction.

Task

In groups of 3 or 4 people prepare a dashboard with two levels of information: one main screen, and one additional screen with detailed information on some aspect.

Study and describe the data. What type of data is? What is the range of values? Which units are used? What precision is required? Has it a temporal nature? What is its life span? Are there outliers? How is it distributed? Identify relations and groupings [Slides: Introduction]

Do a functional analysis, a user analysis and a task analysis of an Account Manager reviewing your dataset. Describe the main tasks in detail [Slides: HCI]

Decide the encoding of the data taking into account data, user and tasks. Describe decisions on encoding and used charts. Justify decisions taken based on perception properties and principles. Prepare the layout taking into account Gestalt principles of grouping and relating [Slides: Perception, Color; Course text for charts].

Be careful to not deceive your user [Slides: Truthful charts].

You may find useful to create a pencil prototype before going into D3, maybe two. If this is the case, include them on your report.

Explain how the user will solve the tasks with your dashboard.

Delivery

The delivery shall include:

- The complete HTML, CSS, JS and image files to locally view the visualization.
- A report explaining decisions and implementation.
- An explanation of the duties of each member of the group.